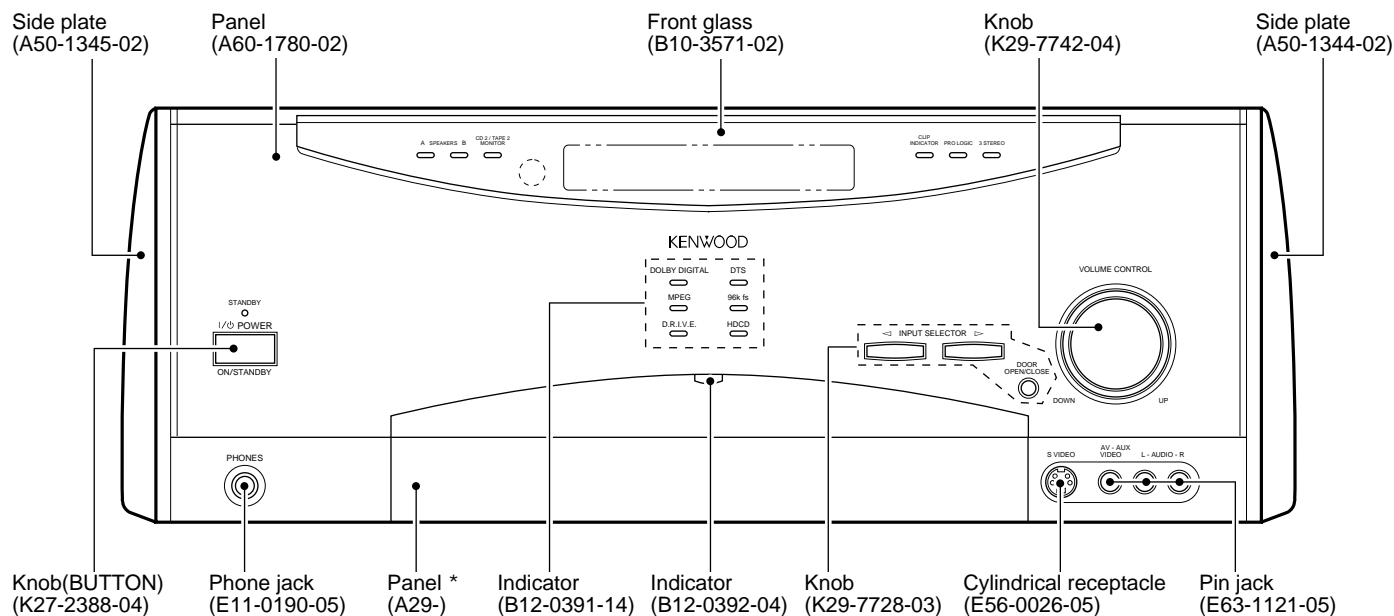


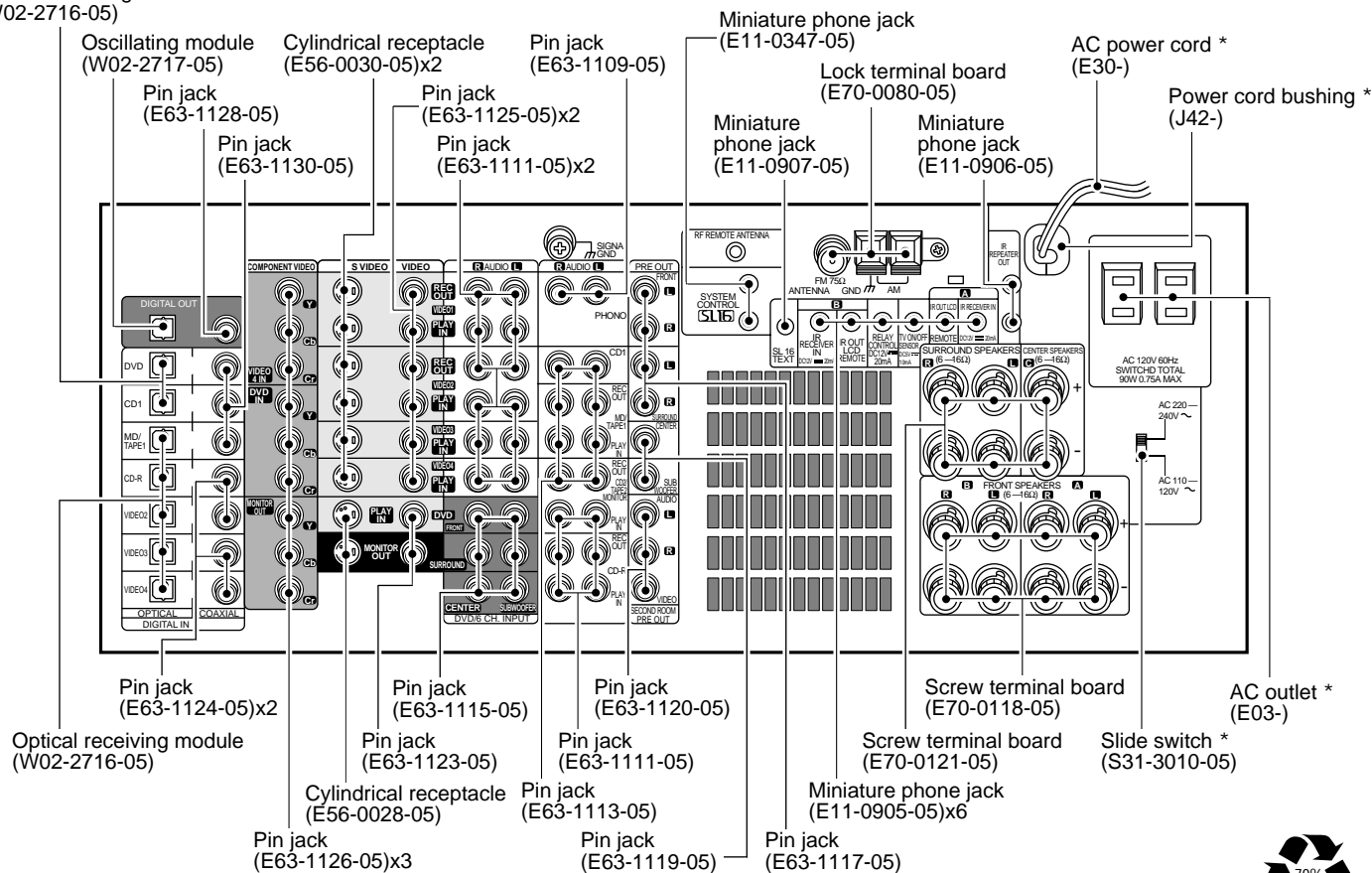
# KRF-V7773D/V7773D-B

## KRF-V9993D

### SERVICE MANUAL



#### Optical receiving module (W02-2716-05)



Illust is KRF-V9993D.

\* Refer to parts list on page 63.



## CONTENTS / ACCESSORIES / CAUTIONS

### Contents

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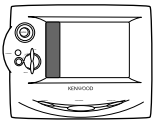
### Accessories

Remote control unit  
(A70-1313-05): RC-R0912  
(A70-1344-05): RC-R0910



Battery cover(A09-1166-08)

Remote control unit (PowerTouch)  
(A70-1350-05): RC-R1011  
(A70-1351-05): RC-R1010

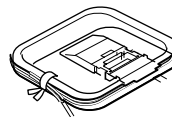


Battery cover(A09-1177-08)  
Pen(W01-0976-08)

Batteries



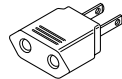
AM Loop Antenna  
(T90-0852-05)



FM Antenna  
(T90-0855-05)



AC plug adaptor ..... (1)  
(E03-0115-05)



Use to adapt the plug on the power cord to the shape of the wall outlet. (Accessory only for regions where use is necessary.)

### Cautions



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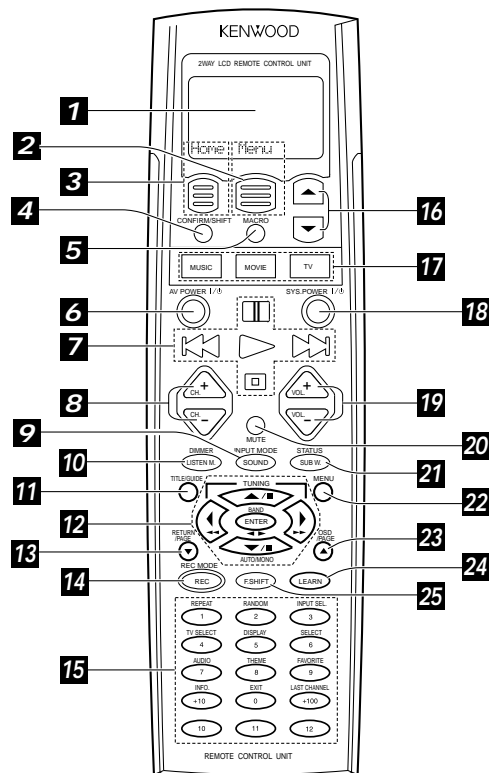
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## Remote control

What's on Remot Control unit?

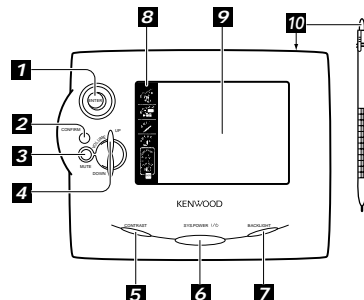


1. LCD indicators
2. LCD function key 2
3. LCD function key 1
4. CONFIRM/SHIFT key
5. MACRO key
6. AV.POWER key (AV device Power key)
7. AV device control keys
  - ▶ : Play
  - ◀, ▶ : Skip
  - ⏸ : Pause
  - : Stop
8. CH.(+/-)key (AV device control keys)
9. SOUND (INPUT MODE) key
10. LISTEN M.(DIMMER) key
11. TITLE/GUIDE key (AV device control key)
12. ▲Cursor up (⏸ PAUSE)key
  - Cursor down (AUTO/MONO, ■ STOP) key
  - left, right (TUNING)keys
  - ENTER (BAND)(Play)key
13. RETURN/PAGE key (AV device control key)
14. REC (Recording)(REC MODE) key5
15. Numeric keys (AV device control keys)
16. LCD cursor up/down keys
17. Input selector keys
  - MUSIC: Audio device selector key
  - MOVIE: Video device selector key
  - TV: TV/video monitor selector key
18. SYS.POWER (Receiver power)key
19. VOL.(+/-)keys
20. MUTE key
21. SUB W.(STATUS)key
22. MENU key (AV device control keys)
23. OSD/PAGE ▲ key (AV device control key)
24. LEARN key
25. F.SHIFT (Backlight)key

## How to operate the F.SHIFT key:

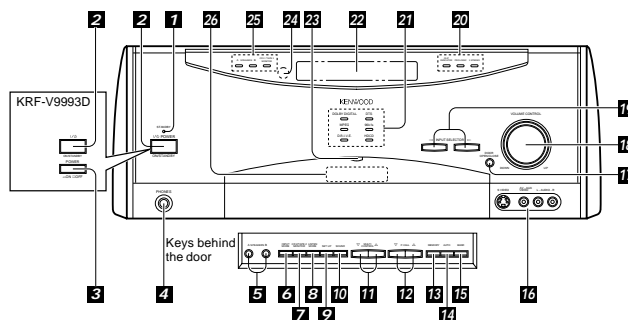
In addition to the functions marked on the remote control keys, those marked in blue characters above the keys can be used. To use these functions, press the F.SHIFT key then press the desired key within 8 seconds. (Example) To use the REPEAT function, press the F.SHIFT key then press key 1 (REPEAT).

## What's on Power Touch?



1. Joystick
2. Confirm button
3. Mute button
4. Volume up/down button
5. Contrast button
6. On/Standby button
7. Backlight button
8. Quick Access menu
9. Touch screen display
10. Stylus (stored on top edge)

## What's on the Front Panel of Your Kenwood Audio-Video Receiver?



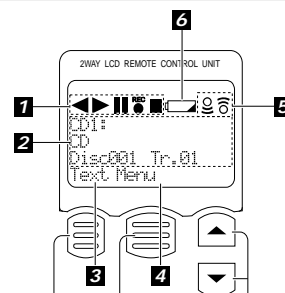
1. STANDBY indicator light
2. POWER ON/STANDBY key (VR-4900/VR-4700) ON STANDBY key (KRF-V9993D)
3. POWER ON / OFF switch (KRF-V9993D)
4. PHONES jack
5. SPEAKERS A/B key
6. INPUT MODE key
7. CD 2/TAPE 2 MONITOR key
8. LISTEN MODE key
9. SET UP key
10. SOUND key

11. MULTI CONTROL (Up/Down) keys
  12. P. CALL (Up/Down) keys
  13. MEMORY key
  14. AUTO key
  15. BAND key
  16. AV-AUX input jacks
  17. DOOR OPEN/CLOSE key
  18. VOLUME CONTROL knob
  19. INPUT SELECTOR keys
  20. Indicators
    - CLIP INDICATOR
    - PRO LOGIC
    - 3 STEREO
  21. Indicators
    - DTS / 96 k fs / HDCD
    - DOLBY DIGITAL / MPEG
    - D. R. I. V. E.
  22. DISPLAY
  23. 2-way communication indicator
  24. Infrared remote sensor
  25. Indicators
    - SPEAKER A/B
    - CD 2/TAPE 2 MONITOR
  26. Infrared remote transmitter
- Keys 5 to 15 are located behind the door.

## Standby mode

While the standby indicator of the unit is lit, a small amount of current is flowing into the unit's internal circuitry to back up the memory. This condition is referred to as the standby mode of the unit. While the unit is in the standby mode, it can be turned ON from the remote control unit.

## LCD Indicators



1. Playback/recording mode indicators
  - ▶ : Play indicator/ ⏸ : Pause indicator/ ● : Record indicator/ ■ : Stop indicator
2. Character display
  - Shows various information such as the input device name and track number.
3. Current function of LCD function key 1
4. Current function of LCD function key 2
5. Communication indicators
  - ◡ : Sending. ◡ : Receiving.
6. Battery indicator
  - "⚡" appears when the batteries are nearly exhausted. In this case, replace all of the four batteries together.

## To switch the menu:

The menu can be switched over or selected while LCD function key 1 and/or 2 are displayed. (Examples: Home, Back, Menu, Enter, etc.)

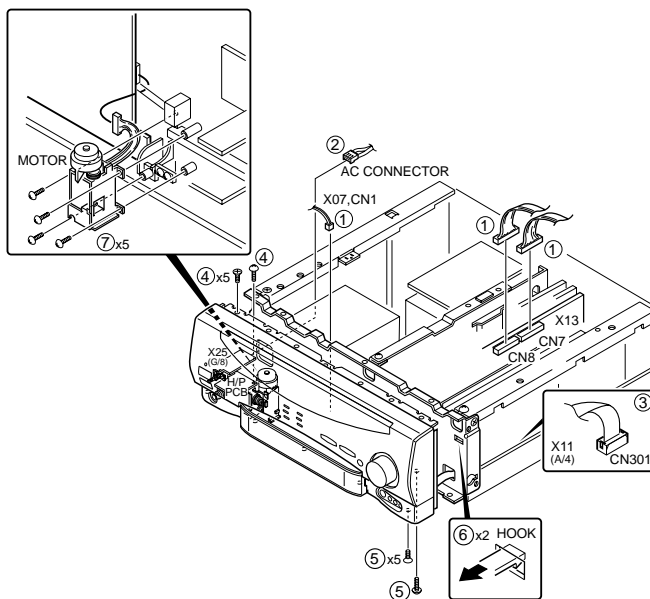
CONTROLS

KRF-V7773D/V7773D-B/V9993D

## DISASSEMBLY FOR REPAIR

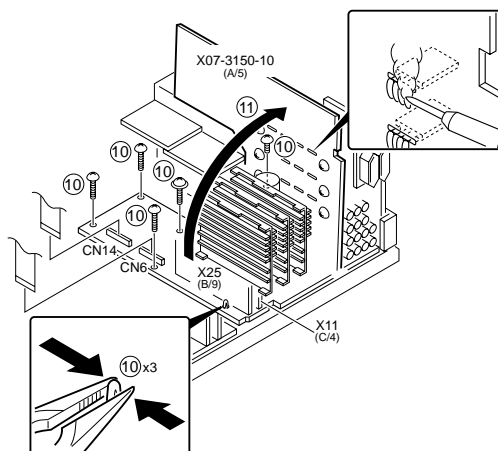
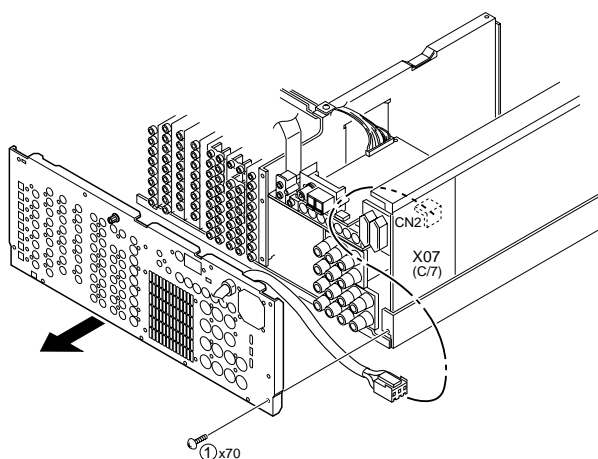
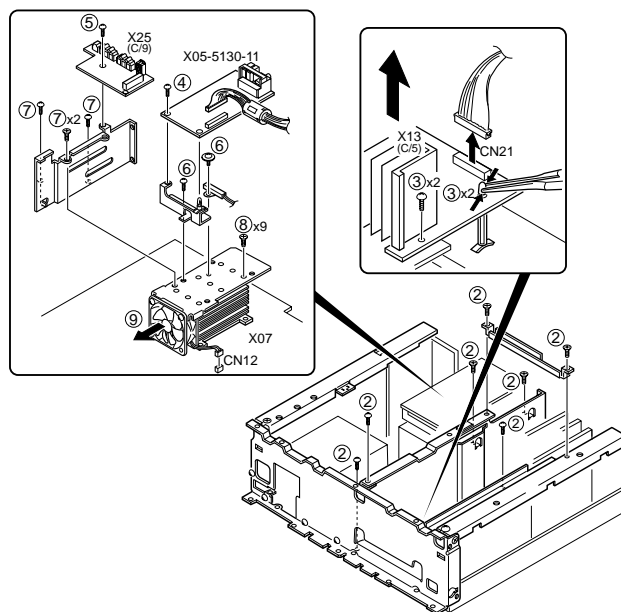
### HOW TO REMOVE THE FRONT PANEL AND THE MOTOR.

1. Take out the connectors (①) {X07,CN1/X13(CN7,CN8)} and the AC connector (②).
2. Take the lead (③) out of CN301 on X11(A/4) PCB.
3. Take out the screws (④) and (⑤).
4. The front panel can be separated by removing 2 hooks (⑥) on the sub panel.
5. To separate the motor from the front panel, remove the screws (⑦).



### HOW TO REPLACE THE POWER TRANSISTOR.

1. The rear panel can be separated by removing screws (①) on the rear panel.
2. Take the AC connector out of CN2 on the X07(C/7).
3. To separate the chassis from bottom chassis, remove the screws (②).
4. Remove CN21 and screws (③) on X13(C/5).
5. Remove screws (④ to ⑦).
6. The fan motor can be separated by removing screws (⑧) and the connector (CN12) on X07 PCB.
7. Take the PCB {X25(B/9), X11(C/4)} out of X07.
8. To separate the main PCB (X07) from the bottom chassis, remove screws (⑩).
9. Set up the PCB as figure (⑪).
10. Replace the defective transistors.





# KRF-V7773D/V7773D-B/V9993D

## CIRCUIT DESCRIPTION

### 1. Initialization

#### 1-1 The Initial Setting

- Insert the power cord to AC wall outlet by pressing the "POWER" key.

#### 1-2 The Initial Condition

- Power On/Off : Off
- Volume Level : -66dB
- Audio Input Selector : TUNER
- Video Signal Input Selector : VIDEO1
- Remote Control Sensor : Data Front In
- Speaker A : On
- Speaker B : Off
- CD2/TAPE2 MONITOR : Off(TAPE MODE)
- Tone : Off
- Loudness : Off
- Display Mode : DEVICE+DGTL/ANLG
- Digital Rec Mode : Off
- Dimmer : Dimmer 1
- Input Mode : DGTL/ANLG-AUTO
- Digital Rec Mode : Off
- HDCD/DRIVE : HDCD/DRIVE AUTO
- Surround Mode : Stereo
- Room Size : Medium
- Wall Type : Medium
- Effect Level : 3
- Midnight Mode : Off
- Distance : FL/FR :10ft  
: C :10ft  
: RS/LS : 5ft  
: SW :10ft
- Front Speaker : Large
- Center Speaker : Normal
- Surround Speaker : Normal
- Subwoofer : On
- SW Re-Mix : OFF
- Input Level : 0dB
- Each Speaker Level : 0dB
- Tone Bass : 0
- Tone Treble : 0
- Tuning Mode : Auto
- Preset Memory : Test frequency
- Last Band : FM
- FM Last Frequency : 87.5MHz (OTHER THAN)  
: 76.0MHz (J)
- AM Last Frequency : 531kHz (CH.SP 9kHz)  
: 530kHz (CH.SP 10kHz)
- Last P.ch : [-ch]

### 2. Destination List of Tuner

0 : Pull down, 1: Pull up

SET TYPE	TYPE	BAND	RECEIVING FREQUENCY RANGE	CHANNEL SPACE	IF	PLL	DIODE SW(X13) ※1			
							DSW3 (R282,R285)	DSW2 (R292,R279)	DSW1 (R296,R284)	DSW0 (R297,R288)
K, P, R	K1 1700	FM	87.5MHz-108.0MHz	100kHz	+10.7MHz	25kHz	0	0	0	0
		AM	530kHz-1700kHz	10kHz	+450kHz	10kHz				
Y, M, I, C, V	K2 1610	FM	87.5MHz-108.0MHz	100kHz	+10.7MHz	25kHz	0	0	1	1
		AM	530kHz-1610kHz	10kHz	+450kHz	10kHz				
Y	K3 1610 RBDS	FM	87.5MHz-108.0MHz	100kHz	+10.7MHz	25kHz	0	0	1	0
		AM	530kHz-1610kHz	10kHz	+450kHz	10kHz				
K, P	K4 1700 RBDS	FM	87.5MHz-108.0MHz	100kHz	+10.7MHz	25kHz	1	0	1	0
		AM	530kHz-1700kHz	10kHz	+450kHz	10kHz				
Y, M, I, C, V, E, X, H	E1	FM	87.5MHz-108.0MHz	50kHz	+10.7MHz	25kHz	0	0	0	1
		AM	531kHz-1602kHz	9kHz	+450kHz	9kHz				
T	E2 LW	FM	87.5MHz-108.0MHz	50kHz	+10.7MHz	25kHz	0	1	0	0
		MW	531kHz-1602kHz	9kHz	+450kHz	9kHz				
		LW	153kHz-279kHz	9kHz	+450kHz	9kHz				
E, T	E3 RDS	FM	87.5MHz-108.0MHz	50kHz	+10.7MHz	25kHz	0	1	0	1
		AM	531kHz-1602kHz	9kHz	+450kHz	9kHz				
T	E4 LW RDS	FM	87.5MHz-108.0MHz	50kHz	+10.7MHz	25kHz	0	1	1	0
		MW	531kHz-1602kHz	9kHz	+450kHz	9kHz				
		LW	153kHz-279kHz	9kHz	+450kHz	9kHz				
Q	Q1 RDS	FM L	65.0MHz-74.0MHz	10kHz	+10.7MHz	5kHz	1	0	1	1
		FM H	87.5MHz-108.0MHz	50kHz	+10.7MHz	5kHz				
		AM	531kHz-1602kHz	9kHz	+450kHz	9kHz				
Q	Q2 RDS	FM L	65.0MHz-74.0MHz	10kHz	+10.7MHz	5kHz	1	1	0	0
		FM H	87.5MHz-108.0MHz	50kHz	+10.7MHz	5kHz				
		MW	531kHz-1602kHz	9kHz	+450kHz	9kHz				
		LW	153kHz-279kHz	9kHz	+450kHz	9kHz				
Y, M, I, C, V	M	K2/E1 are switched by DSW1. (DSW1 = 1:K2type, 0: E1type)					0	0	X	1
Y	Y RBDS	K3/E1 are switched by DSW0. (DSW0 = 0:K3type, 1: E1type)					X	0	1	X

※1 DIODE SW(DSWx) : 0 = NO DIOE(1 = WITH DIODE  
X = TRANSISTOR SW(0=OFF/1=ON)

# KRF-V7773D/V7773D-B/V9993D

## CIRCUIT DESCRIPTION

### 3. Test Mode

#### 3-1 Entering the Test Mode

- While pressing the "INPUT SELECTOR DOWN" key, plug the power cord into AC wall outlet.

#### 3-2 Cancelling the Test Mode

- Initialized and cancel the test mode if pulling out the power cord.
- Not initialized and cancel the test mode if the power switch turns off.

#### 3-3 Contents of the Test Mode

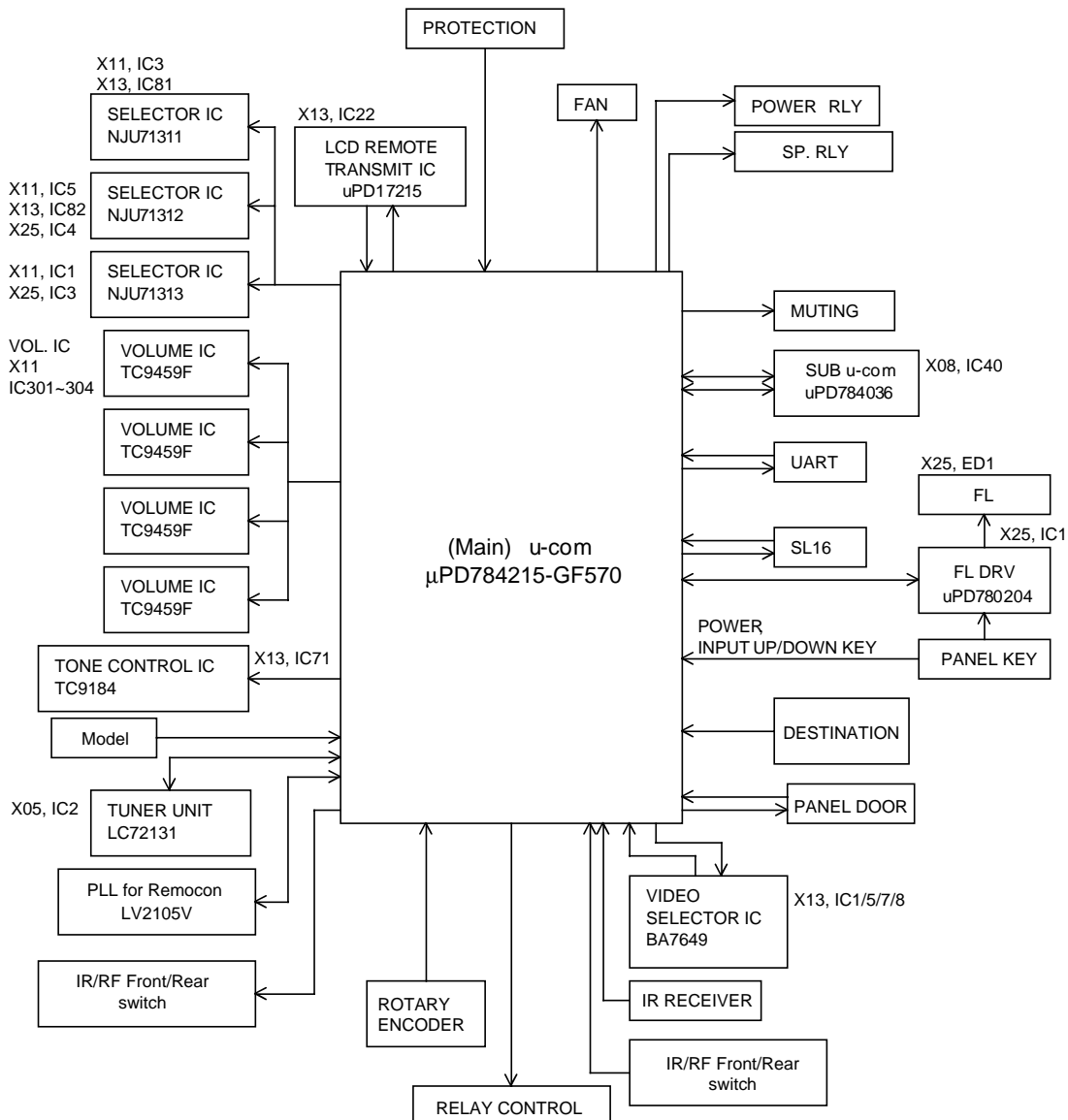
##### 3-3-1 Key Operation

\*The following operation is available when the FL is all lighting up mode only.

KEY	OPERATION	DISPLAY
SOUND	Set up the RF frequency to 411.3MHz.	RF 417.3MHz
LISTEN MODE	Set up the RF frequency to 414.3MHz.	RF 414.3MHz
INPUT MODE	Set up the RF frequency to 411.3MHz.	RF 417.3MHz
SET UP	Indicates Tuner destination on the FL.	EX. TYPE E1→TYPE E2
MEMORY	Changed dimmer off/1/2cyclically.	All FL light on→ALL FL light off
BAND KEY	Indicates the u-com version.	EX. Ver . XXXXXX-X

### 4. Main Microprocessor : uPD784215-GF570 (X13, IC23)

#### 4-1 Main Microprocessor Periphery Block Diagram



## 4-2 Pin Description of Main Microprocessor

Pin No.	Pin Name	I/O	Description
1-8	REM_D0-D7	O	LCD ROMOTE DATA OUT (0-7)
9	VDD	-	+5V POWER SUPPLY
10	VOL_DATA	O	VOLUME IC DATA OUT
11	VOL_CLK	O	VOLUME IC CLOCK
12	VOL_STB	O	VOLUME IC STROBE
13	TONE_STB	O	TONE IC STROBE
14	VOL/TONE/SEL_DATA	O	TONE/SELECTOR IC DATA OUT
15	VOL/TONE/SEL_CLK	O	TONE/SELECTOR IC CLOCK
16-18	SEL_STB1-3	O	SELECTOR IC STROBE1-3
19	MODEL1	I	DISCRIMINATION SW1 FOR MODEL
20	MODEL2	I	DISCRIMINATION SW2 FOR MODEL
21	RF_PLL_CE	O	PLL(V2105V)CE FOR RF REMOTE CONTROL
22	VPP TEST	-	CONNECTED TO GND
23	STEREO	I	PLL(LC72131) STEREO
24	SD	I	PLL(LC72131) SD
25	[RF] PLL_CLK	O	PLL(LC72131) CLOCK RF REMOTE CONTROL(V2105V) CLOCK
26	[RF] PLL_DATA	O	PLL(LC72131) DATA RF REMOTE CONTROL PLL(V2105V) DATA
27	PLL_DO	I	PLL(LC72131) DO
28	PLL_CE	O	PLL(LC72131) CE
29	T_MUTE	O	TUNER MUTE
30	RELAY_CONT	O	RELAY CONTROL OUTPUT(REFER TO 5. SW CONTROL)
31-33	P_MACRO_A-C	O	PERFECT MACRO (A-C)
34	TV_SENS	I	TV SIGNAL DETECTION
35	ENC_A	I	VOLUME ENCODER INPUT A
36	ENC_B	I	VOLUME ENCODER INPUT B
37	VDD	-	+5V POWER SUPPLY
38	X2	O	12.5MHz OSCILLATOR
39	X1	I	12.5MHz OSCILLATOR
40	VSS	-	GND
41	XT2	-	UNUSED
42	XT1	-	CONNECTED TO GND
43	RESET	I	MAIN u-COM RESET
44	CE	I	CHIP ENABLE
45	DSW1	I	TUNER DESTINATION SW1
46	DSW2	I	TUNER DESTINATION SW2
47	POWER_KEY_IN	I	POWER KEY INPUT
48	RDS_CLOCK	I	RDS SYNCHRONIZED CLOCK
49	REM1	I	REMOTE CONTROL SIGNAL INPUT1 (FRONT PANEL)
50	REM2	I	REMOTE CONTROL SIGNAL INPUT (IR RECEIVER)
51	AVDD	-	+5V POWER SUPPLY
52	AVREF	-	+5V POWER SUPPLY
53	CLOSE_SENS	I	CLOSE SENSOR(PANEL DOOR)
54	OPEN_SENS	I	OPEN SENSOR(PANEL DOOR)
55	P_MACRO_IN	I	PERFECT MACRO INPUT
56	THERM_SW	I	THERMAL SW CHANGEOVER
57	S_LEVEL	I	RDS SIGNAL LEVEL INPUT
58	RDS_DATA	I	RDS SYNCHRONIZED DATA
59	DSW0	I	TUNER DESTINATION SW0
60	INPUT_DOWN_KEY_IN	I	INPUT DOWN KEY INPUT
61	AVSS	-	CONNECTED TO GND
62	S_DATA	I/O	SL16 DATA
63	S_BUSY	I/O	SL16 BUSY
64	AVREF	-	+5V POWER SUPPLY
65	TEXT_RX	I	CD TEXT UART COMMUNICATION DATA IN

Pin No.	Pin Name	I/O	Description
66	TEXT_TX	O	CD TEXT UART COMMUNICATION DATA OUT
67	SUB RESET	O	SUB u-COM RESET PORT
68	FL_DIN	I	FL DRIVER (uPD780204) DATA IN
69	FL_DOUT	O	FL DRIVER (uPD780204) DATA OUT
70	FL_CLK	O	FL DRIVER (uPD780204) CLOCK
71	FL_RST	O	FL DRIVER (uPD780204) RESET
72	FL_STB	O	FL DRIVER (uPD780204) STROBE
73	SDT	I	DATA COMMUNICATION BETWEEN MAIN & SUB u-COM
74	MDT	O	DATA COMMUNICATION BETWEEN MAIN & SUB u-COM
75	MCK	O	SUB u-COM CLOCK OUTPUT
76	MREQ	O	COMMUNICATION MASTER REQUEST BETWEEN MAIN & SUB u-COM
77	SREQ	I	COMMUNICATION SLAVE REQUEST BETWEEN MAIN & SUB u-COM
78	10dB_CTL	O	-10dB AMP CHANGEOVER (AMP ON:H)
79	SW MUTE	O	SPEAKER S/W MUTE
80	MUTE	O	PREOUT SURROUND MUTE
81	B_MUTE	O	PREOUT B MUTE(ROOM B)
82	A_MUTE	O	ROOM A MUTE
83	DSW3	I	TUNER DESTINATION SW3
84	RELAY_CS	O	CENTER/SURROUND SP. RELAY CONTROL
85	RELAY_B	O	SP.B RELAY CONTROL
86	RELAY_A	O	SP.A RELAY CONTROL
87	RELAY_TR	O	TRANSFORMER TAP CHANGEOVER
88	POWER	O	POWER RELAY CONTROL
89	FAN_H/L	O	FAN MOTOR (H/L) CONTROL
90	FAN_ON/OFF	O	FAN MOTOR (ON/OFF)CONTROL
91	10W	I	10W DETECTION PORT
92	1W	I	1W DETECTION PORT
93	IR SELECT	O	IR REMOTE CONTROL SENSOR CONTROL
94	V_PROT	I	VOLTAGE DETECTION FOR PROTECTION
95	I_PROT	I	CURRENT DETECTION FOR PROTECTION
96	STBY_LED	O	STANDBY LED CONTROL
97	REM_RWR	I	LCD REMOTE RWR
98	REM_ENB	I	LCD REMOTE ENABLE
99	REM_REQ	O	LCD REMOTE REQUEST
100	VSS	-	CONNECTED TO GND

## 5. Switch Control

## 5-1 Fan Control (X13, IC23)

	10W(91Pin)	1W(92Pin)	THERM SW(56Pin)	FAN ON/OFF(90Pin)	FAN H/L(89Pin)
FAN STOP	H	H	L	0	1
FAN LOW SPEED	H	L	L	1	1
FAN HI SPEED	L	L	L	1	0
FAN LOW SPEED	H	H	H	1	1
FAN HI SPEED	H	L	H	1	1
FAN HI SPEED	L	L	H	1	0

## 5-2 Door Open/Close Control : FL Driver(X25,IC1)

	DOOR OUT1(42Pin)	DOOR OUT2(41Pin)
OPEN	1	0
CLOSE	0	1
STOP	0	0
BREAK	1	1

## 5-3 Open Close Sensor (X13,IC23 Main u-COM)

	OPEN SENS(54)	CLOSE SENS(53)
END OF OPEN ACTION	0	1
END OF CLOSE ACTION	1	0

# KRF-V7773D/V7773D-B/V9993D

## CIRCUIT DESCRIPTION

### 5-4 Relay Control :X13,IC23(Main u-COM)

	RELAY CONT. (Pin 30)
PHONO	0
TUNER	
CD1	
MD/TAPE1	
CD-R	
CD2/TAPE2 MONITOR	1
VIDEO1	
VIDEO2	
VIDEO3	
VIDEO4	
DVD	
AV AUX	

### 5-5 IR Remote Control Sensor Control

		Pin7 (X11,IC201)	Pin6 (X11,IC201)	IR_SELECT (Pin 93 of X13 IC23)
WITH RF VERSION	RF ON	×	○	0
	RF OFF	○	×	1
WITHOUT RF VERSION	FRONT IR ON	×	○	0
	FRONT IR OFF	○	×	1

### 5-6 P MACRO A,B,C(X13,IC23)

	P MACRO A(Pin31)	P MACRO B(Pin32)	P MACRO C(Pin33)
VIDEO1	0	0	0
VIDEO2	0	1	0
VIDEO3	1	0	0
VIDEO4	1	1	0
DVD	0	0	1

	P MACRO IN(55)
SIGNAL(YES)	H
SIGNAL(NO)	L

	TV SENS(34)
TV POWER ON	H
TV POWER OFF	L

### 5-7 A Input Selector

	X25 IC3 ST1 NJU7313							
	L1	L2	L3	L4	L5	L6	L7	L8
	R1	R2	R3	R4	R5	R6	R7	R8
6ch INPUT	×	×	×	×	×	×	○	○
OTHER THAN 6ch INPUT								
VIDEO1	×	×	×	×	×	×	○	○
Room A	×	×	×	×	×	×	○	○
VIDEO2	×	×	×	×	×	×	○	○
Room A	×	×	×	×	×	×	○	○
VIDEO3	×	×	×	×	×	×	○	○
Room A	×	×	×	×	×	×	○	○
VIDEO4	×	×	×	×	×	×	○	○
AV AUX	×	×	×	×	×	×	○	○
Room A	×	×	×	×	×	×	○	○
DVD	×	×	×	×	×	×	○	○
PHONO	○	×	×	×	×	×	○	○
Room A	○	×	×	×	×	×	○	○
TAPE1/MD	×	○	×	×	×	×	×	○
Room A	×	×	○	×	×	×	○	○
CD1	×	×	○	×	×	×	○	○
Room A	×	×	×	○	×	×	○	×
CD-R	×	×	×	○	×	×	○	×
Room A	×	×	×	×	○	×	○	○
TUNER	×	×	×	×	○	×	○	○
Room A	×	×	×	×	×	×	○	○
CD2	×	×	×	×	×	×	○	○
DIGITAL REC	×	×	×	×	×	×	—	—
	×	×	×	×	×	×	—	—

X25,IC3			
	Pin No.		Pin No.
L1	2	R1	29
L2	3	R2	28
L3	4	R3	27
L4	5	R4	26
L5	7	R5	24
L6	8	R6	23
L7	10	R7	21
L8	11	R8	20

X25,IC4			
	Pin No.		Pin No.
L1	2	R1	29
L2	3	R2	28
L3	4	R3	27
L4	6	R4	25
L5	7	R5	24
L6	8	R6	23
L7	10	R7	21
L8	11	R8	20

### 5-8 B Input Selector

	X25 IC4 ST1 NJU7312							
	L1	L2	L3	L4	L5	L6	L7	L8
	R1	R2	R3	R4	R5	R6	R7	R8
Room B	×	×	×	×	×	×	×	—
VIDEO1	×	×	×	×	×	×	×	—
Room B	×	×	×	×	×	×	×	—
VIDEO2	×	×	×	×	×	×	×	—
Room B	×	×	×	×	×	×	×	—
VIDEO3	×	×	×	×	×	×	×	—
Room B	×	×	×	×	×	×	×	—
VIDEO4	×	×	×	×	×	×	×	—
Room B	×	×	×	×	×	×	×	—
DVD	×	×	×	×	×	×	×	—
Room B	○	×	×	×	×	×	×	—
TAPE1/MD	○	×	×	×	×	×	×	—
Room B	×	×	×	○	×	×	×	—
CD2	×	×	×	○	×	×	×	—
Room B	×	○	×	×	×	×	×	—
CD1	×	○	×	×	×	×	×	—
Room B	×	×	○	×	×	×	×	—
CD-R	×	×	○	×	×	×	×	—
Room B	×	×	×	×	○	×	×	—
TUNER	×	×	×	×	○	×	×	—
CD2(IN CD2/TAPE2 MODE)	—	—	—	—	—	×	×	×
	—	—	—	—	—	×	×	×
TAPE2(IN CD2/TAPE2 MODE)	—	—	—	—	—	×	×	○
	—	—	—	—	—	×	×	○

# KRF-V7773D/V7773D-B/V9993D

## CIRCUIT DESCRIPTION

### 5-9 ROOM A IC

	X11 IC1 VTS ST3 NJU7313							
	L1	L2	L3	L4	L5	L6	L7	L8
	R1	R2	R3	R4	R5	R6	R7	R8
6ch INPUT	×	×	×	×	○	×	○	×
DIGITAL REC	×	×	×	×	×	×	○	×
OTHER THAN 6ch INPUT/DIGITAL REC	×	×	×	×	×	×	○	×
Room A VIDEO1	○	×	×	×	×	×	—	—
Room A VIDEO2	×	○	×	×	×	×	—	—
Room A VIDEO3	×	×	○	×	×	×	—	—
Room A VIDEO4	×	×	×	○	×	×	—	—
AV AUX	×	×	×	×	×	○	—	—
Room A DVD	×	×	×	×	○	×	—	—
PHONO	×	×	×	×	×	×	—	—
Room A TAPE1/MD	×	×	×	×	×	×	—	—
Room A CD2	×	×	×	×	×	×	—	—
Room A CD1	×	×	×	×	×	×	—	—
Room A CD-R	×	×	×	×	×	×	—	—
Room A TUNER	×	×	×	×	×	×	—	—
Room A TAPE2 MONITOR	—	—	—	—	—	—	×	○
Room A TAPE2 MONITOR OFF	—	—	—	—	—	—	○	×

### 5-10 REC OUT/INPUT LEVEL SEL

	X11 IC3 VTS ST3 NJU7311						
	L1	L2	L3	L4	L5	L6	L7
	R1	R2	R3	R4	R5	R6	R7
6ch INPUT	○	○	×	×	○	×	×
OTHER THAN 6ch INPUT	○	○	×	×	○	×	×
Room A VIDEO1	×	○	—	—	—	—	—
Room A VIDEO2	○	×	—	—	—	—	—
Room A VIDEO3	○	○	—	—	—	—	—
Room A VIDEO4	○	○	—	—	—	—	—
AV AUX	○	○	—	—	—	—	—
Room A DVD	○	○	—	—	—	—	—
PHONO	○	○	—	—	—	—	—
Room A PAPE1/MD	○	○	—	—	—	—	—
Room A CD2	○	○	—	—	—	—	—
Room A TAPE2 MONITOR	○	○	—	—	—	—	—
Room A CD1	○	○	—	—	—	—	—
Room A CD-R	○	○	—	—	—	—	—
Room A TUNER	○	○	—	—	—	—	—
INPUT LEVEL AT 0dB	—	—	×	×	○	×	—
INPUT LEVEL AT -3dB	—	—	○	×	×	○	—
INPUT LEVEL AT -6dB	—	—	×	○	×	○	—
DIGITAL REC	—	—	—	—	—	—	○

### 5-11 ROOM B IC

	X11 IC5 VTS ST3 NJU7312							
	L1	L2	L3	L4	L5	L6	L7	L8
	R1	R2	R3	R4	R5	R6	R7	R8
Room B VIDEO1	○	×	×	×	×	×	—	—
Room B VIDEO2	×	○	×	×	×	×	—	—
Room B VIDEO3	×	×	○	×	×	×	—	—
Room B VIDEO4	×	×	×	○	×	×	—	—
Room B DVD	×	×	×	×	○	×	—	—
Room B TAPE1/MD	×	×	×	×	×	×	—	—
Room B CD2/TAPE2 MONITOR	×	×	×	×	×	×	—	—
Room B CD1	×	×	×	×	×	×	—	—
Room B CD-R	×	×	×	×	×	×	—	—
Room B TUNER	×	×	×	×	×	×	—	—
TEST TONE	—	—	—	—	—	×	○	×
(SP. B ON)ROOM B MODE	—	—	—	—	—	×	×	○
UNUSED ROOM B OR SP. B OFF	—	—	—	—	—	×	○	×

X11,IC1			
	Pin No.	R1	Pin No.
L1	29	R1	2
L2	28	R2	3
L3	27	R3	4
L4	26	R4	5
L5	24	R5	7
L6	23	R6	8
L7	21	R7	10
L8	20	R8	11

X11,IC3			
	Pin No.	R1	Pin No.
L1	29	R1	2
L2	28	R2	3
L3	26	R3	5
L4	25	R4	6
L5	23	R5	8
L6	22	R6	9
L7	20	R7	11

X11,IC5			
	Pin No.	R1	Pin No.
L1	29	R1	2
L2	28	R2	3
L3	27	R3	4
L4	25	R4	6
L5	24	R5	7
L6	23	R6	8
L7	21	R7	10
L8	20	R8	11

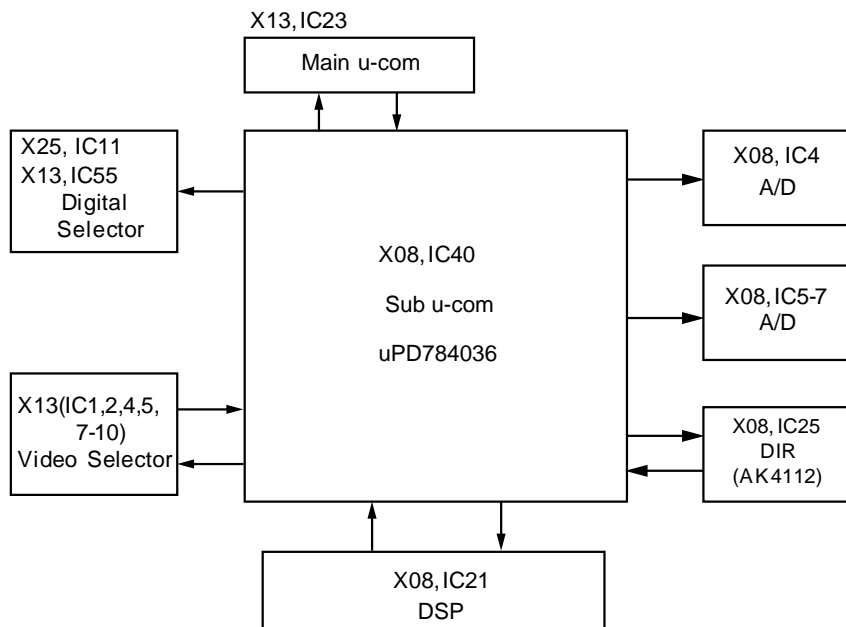
## CIRCUIT DESCRIPTION

### 5-12 Volume IC : TC9459F(X11,IC301-304)

CHIP SELECT CODE		OUTPUT PORT	CHANNEL
CS1(9Pin)	CS2(16Pin)		
L	L	Lch	Room A Rch
		Rch	Room A Lch
H	L	Lch	Room A RSch/Sp. B Rch
		Rch	Room A LSch/Sp. B Lch
L	H	Lch	Room A SWch
		Rch	Room A Cch
H	H	Lch	Room B Rch
		Rch	Room B Lch

### 6. Sub Microprocessor : uPD784036(X08,IC40)

#### 6-1 Sub Microprocessor Periphery Block Diagram



#### 6-2 Pin Description

Pin No.	Pin Name	I/O	Description
1	DIR_PD	O	DIR Power Down
2	DIR_CS	O	DIR Chip Select
3	REC_6dB	O	REC Gain Changeover(When HDCD +6dB ) H : +6dB on
4	CTRL_A	O	Video Selector Control A(9993)
5	CTRL_B	O	Video Selector Control B(9993)
6	FSC_CTRL	O	Video Selector FSC Control(9993)
7	RESET	I	Reset in
8	VDD		+5V Power Supply
9	X2	-	8.0MHz Oscillator
10	X1	-	8.0MHz Oscillator
11	VSS	-	Connected to GND
12	COMP_A_A	O	Composite Select RoomA A
13	COMP_A_B	O	Composite Select RoomA B
14	COMP_A_C	O	Composite Select RoomA C
15	COMP_A_D	O	Composite Select RoomA D
16	COMP_A_E	O	Composite Select RoomA E
17	COMP_B_A	O	Composite Select RoomB A
18	COMP_B_B	O	Composite Select RoomB B
19	COMP_B_E	O	Composite Select RoomB E
20	VSEL	O	VSEL

# KRF-V7773D/V7773D-B/V9993D

## CIRCUIT DESCRIPTION

Pin No.	Pin Name	I/O	Description
21	<u>SUB_MUTE</u>	O	Sub Microcomputer Analog Mute
22	<u>DAIN_MUTE</u>	I	DAC Input Mute
23	NC	I	Unused
24	PCM ZERO	I	PCM Zero Data Detection(KPCM)
25	<u>D.R.I.V.E.</u>	O	DSP DRIVE/HDCD Control(KPCM) L: DRIVE/HDCD on
26	HDCD_6dB	I	DSP HDCD +6dB Detection
27	OVER_LEVEL	I	DSP Over Level Detection
28	DTS_SENS	I	DSP DTS Header Detection(KPCM)
29	<u>MUTE</u>	O	DSP Mute Control
30	HDCD	I	DSP HDCD Signal Detection
31	BUSY	I	DSP Status BUSY
32	<u>DSP_RESET</u>	O	DSP IC Reset
33	<u>RD/WR</u>	O	DSP <u>RD/WR</u>
34	<u>REQ</u>	O	DSP <u>REQ</u>
35	<u>ACK</u>	I	DSP <u>ACK</u>
36-43	DATA_7-0	I/O	DSP DATA_7-0
44	NC	-	Unused
45	GND	-	Connected to GND
46	TEST	-	Connected to GND
47	MREQ	I	Main Computer Master Request
48	SREQ	O	Main Computer Slave Request
49	MCK	I	Main Computer Master Clock
50	MDT	I	Main Computer Master Data
51	SDT	O	Main Computer Slave Data
52	Y_C_SEL_B	O	Y/C Select B
53	Y_C_SEL_A	O	Y/C Select A
54	DAC96	O	DAC Double speed sampling mode control
55	VDD	-	+5V Power Supply
56-58	DSEL_C-A	O	Digital Input Selector Control C-A
59	CTRL_A2	O	Video Selector Control A2
60	OPT_DET	O	OPTICAL Digital Input Detection (A/Din)
61	<u>AD_RESET</u>	O	ADC Reset
62	<u>DAOUT_MUTE</u>	O	DAC Output Mute
63	<u>DAC_PD</u>	O	DAC Power Down
64,65	VDD	-	+3.3V Power Supply
66	GND	-	Connected to GND
67,68	NC	-	Unused
69,70	VCC	-	+3.3V Power Supply
71	-	-	Unused
72	Y_DETECT	I	Y Detect
73	ERF	I	DIR Error Flag
74	AUTO	I	DIR Auto Data Detection
75	FS96	I	DIR fs 96kHz Detection
76	CCLK	O	DIR Control Clock
77	C_K_DETECT	I	C K Detection
78	C_DETECT	I	C Detection
79	CDTO	I	DIR Control Data Out
80	CDTI	O	DIR Control Data In

# KRF-V7773D/V7773D-B/V9993D

## CIRCUIT DESCRIPTION

### 7. Description of Digital Selector and Video Selector (X08, IC40)

#### 7-1 Digital Selector

KRF-V9993D/VR-4900/VR4700/VR-4090 (for OPT and COAX)

Input	DSELA (58Pin)	DSELB (57Pin)	DSELC (56Pin)
CD1	L	H	L
MD/TAPE1	H	H	L
CD-R	L	L	H
VIDEO2	H	L	H
VIDEO3	L	H	H
VIDEO4	H	H	H
DVD	H	L	L
others	L	L	L

KRF-V7773D/ VR-4080

Input	DSELA (58Pin)	DSELB (57Pin)	DSELC (56Pin)
CD1(OPT)	L	H	L
VIDEO2(COAX)	L	H	L
VIDEO3(COAX)	H	H	L
DVD(OPT/COAX)	H	L	L
others	L	L	L

#### 7-2 Video Selector

- VSEL(Pin20)

	VSEL
VIDEO1	L
VIDEO2	H
VIDEO3	H
VIDEO4	L
AV-AUX	L
DVD	L
V MUTE	L

- Y\_C\_SEL(Pin53,52)

Y\_DETECT(Pin72) = H

	Y_C_SEL_A	Y_C_SEL_B
VIDEO1	L	H
VIDEO2	L	H
VIDEO3	L	H
VIDEO4	L	H
AV-AUX	L	H
DVD	H	L
V MUTE	H	H

Y\_DETECT(Pin72) = L

	Y_C_SEL_A	Y_C_SEL_B
VIDEO1	L	L
VIDEO2	L	L
VIDEO3	L	L
VIDEO4	L	L
AV-AUX	L	L
DVD	L	L
V MUTE	H	H

- CTRL(Pin4,5,59)

C\_DETECT(Pin78) = L

	CTRL_A	CTRL_A2	CTRL_B
VIDEO1	L	L	H
VIDEO2	L	L	H
VIDEO3	L	L	H
VIDEO4	L	L	L
AV-AUX	L	L	H
DVD	H	H	L
V MUTE	H	H	H

- C\_DETECT(Pin78) = H

C\_K\_DET(Pin77) = L

	CTRL_A	CTRL_A2	CTRL_B
VIDEO1	L	L	H
VIDEO2	L	L	H
VIDEO3	L	L	H
VIDEO4	L	L	H
AV-AUX	L	L	H
DVD	L	L	H
V MUTE	H	H	H

C\_K\_DET(Pin77) = H

V_SEL	CTRL_A	CTRL_A2	CTRL_B
VIDEO1	L	H	H
VIDEO2	L	H	H
VIDEO3	L	H	H
VIDEO4	L	H	H
AV-AUX	L	H	H
DVD	L	H	H
V MUTE	H	H	H

- COMP\_A(Pin11,12,13,14,15,16)

Y\_DETECT(Pin72) = H

	COMP_A_A	COMP_A_B	COMP_A_C	COMP_A_D	COMP_A_E
VIDEO1	L	L	L	L	L
VIDEO2	H	H	L	L	L
VIDEO3	H	L	L	L	L
VIDEO4	L	H	H	L	L
AV-AUX	L	H	L	L	L
DVD	L	H	L	L	L
V MUTE	L	H	L	H	H



# KRF-V7773D/V7773D-B/V9993D

## CIRCUIT DESCRIPTION

Y\_DETECT(Pin72) = L

	COMP_A_A	COMP_A_B	COMP_A_C	COMP_A_D	COMP_A_E
VIDEO1	L	L	L	L	H
VIDEO2	H	H	L	L	H
VIDEO3	H	L	L	L	H
VIDEO4	L	H	H	L	H
AV-AUX	L	H	L	L	H
DVD	L	H	L	H	L
V MUTE	L	H	L	H	H

• COMP\_B(Pin17,18,19)

	COMP_B_A	COMP_B_B	COMP_B_C
VIDEO1	H	H	H
VIDEO2	H	H	L
VIDEO3	L	H	L
VIDEO4	H	L	L
DVD	L	L	L

• KRF-V7773D/VR-4080

	COMP_A					Y_C_SEL		V_SEL	CTRL	
	A	B	C	D	E	A	B		A	B
VIDEO1	L	L	L	L	H	L	H	L	L	L
VIDEO2	H	H	L	L	H	L	H	L	L	L
VIDEO3	H	L	L	L	H	L	H	L	L	L
VIDEO4	L	H	H	L	H	L	H	L	L	L
AV-AUX	L	H	L	L	H	L	H	L	L	L
DVD	L	H	L	H	L	H	L	L	L	L
V MUTE	L	H	L	H	H	H	H	L	L	L

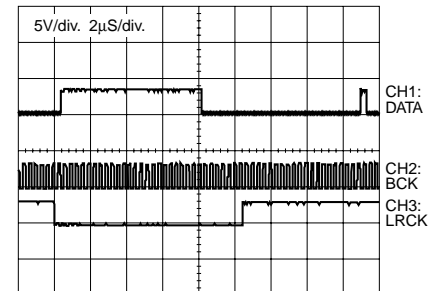
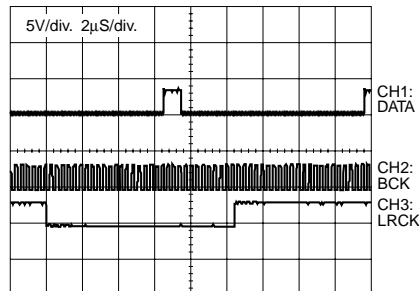
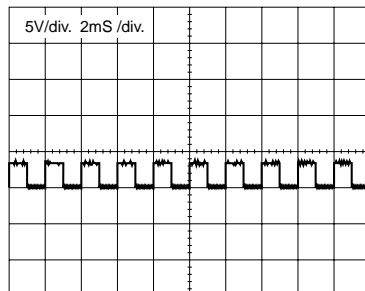
### 8. DSP IC: ADSP-21065L(X08,IC21) CHECK METHOD

Note: This IC is scarcely damaged. Pay attention to poor soldering if replace it.

1. Set the selector to ANALOG(TAPE or TUNER). In this mode, Fs will be 48kHz.
2. Set the mode to JAZZ CLUB.
3. Check the square waveform which is 500Hz period at #76(FLG11) of IC. It is good if #76 has the waveform.
4. Check the waveform which is 30MHz at #30(CLKIN) of IC.
5. Check the voltage which is 3.3V at #157(RESET) of IC
6. Check the every ports which are 48MHz at #7(TFS0), #13(RFS1) and #18(TFS1) of IC
7. Check the every ports which are 3.07MHz at #8(TCLK0) and #15(RCLK1) of IC.
8. Check the waveform which are data at #16(DR1A) of IC. Refer to figures.

X08, IC21 (76pin)

FLG11 waveform in JAZZ club selected to TAPE.



DATA waveform will change figure by trigger as above.

Check the AD converter and DIR and oscillation circuitry if you can get no good at above steps.

9. Check the waveform which are data at #11(DT0A), #12(DT0B) and #22(DT1A) of IC.

Check the DA converter and so if you can get step9, too.

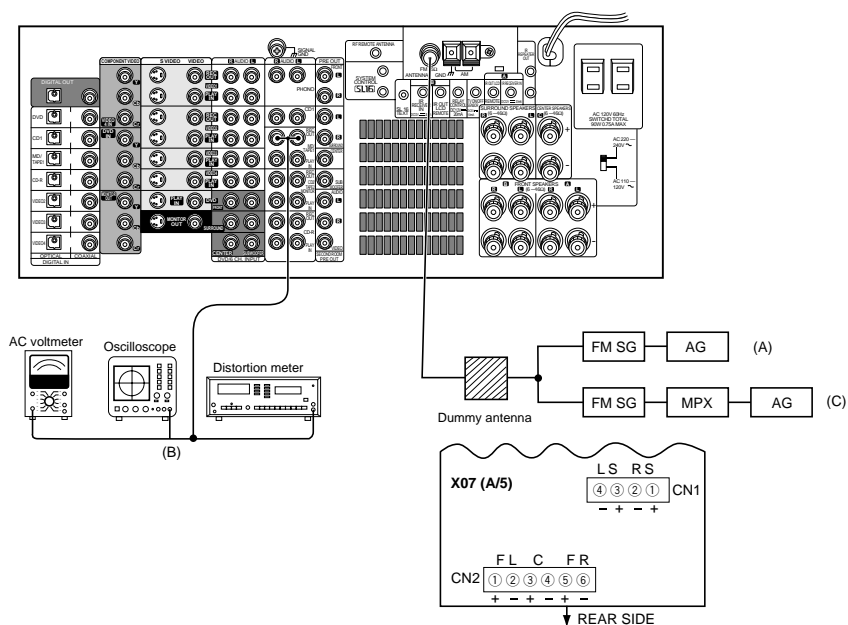
## ADJUSTMENT

X05-513X-XX

X05-514X-XX

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	RECEIVER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
<b>FM SECTION :</b>		<b>SELECTOR : FM</b>	<b>*Adjust NO.1 and NO.2 repeat.</b>				
1	DISCRIMINATOR	(A) 98.0MHz 1kHz, ±40kHz dev. 70dBf (ANT. input)	Connect a DC voltmeter between CN2 ① and CN2 ② (X05)	MONO 98.0MHz	L4 (X05-)	0V	
2	DISTORTION (MONO)	(A) 98.0MHz 1kHz, ±40kHz dev. MONO 70dBf (ANT. input)	(B)	MONO 98.0MHz	L5 (X05-)	Minimum distortion	
3	DISTORTION (STEREO)	(C) 98.0MHz 1kHz, ±40kHz dev. Selector : L or R Pilot : ±6kHz dev. 70dBf (ANT. input)	(B)	AUTO 98.0MHz	IFT(RF FRONTEND : A1) (X05-)	Minimum distortion (L or R)	
4	TUNING LEVEL	(A) 98.0MHz MONO 1kHz, ±40kHz dev. 30dBf (ANT. input)	—	MONO 98.0MHz	VR1 (X05-)	Adjust VR1 and stop at the point where ED1 (TUNED) goes on.	
<b>AUDIO SECTION</b>		<b>SPEAKER : A</b>	<b>PREOUT : OFF</b>	<b>PROLOGIC : ON</b>			
<1>	IDLE CURRENT	—	Connect a DC voltmeter across each T.P. CN2(①, ②) FLch CN2(③, ④) Cch CN2(⑤, ⑥) FRch CN1(①, ②) RSch CN1(③, ④) LSch X07(A/5)	(FRONT 2ch MODE) Volume:0	VR1(FL) VR2(FR) VR3(LS) VR4(RS) VR5(CENTER) (X09-)	10mV	

## SYSTEM CONNECTIONS

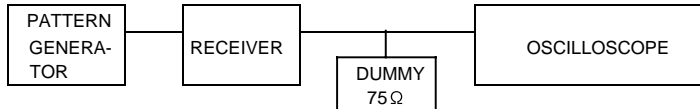


## ADJUSTMENT

### Adjustment of Sub Color and Contrast (X35, VR1, VR2)

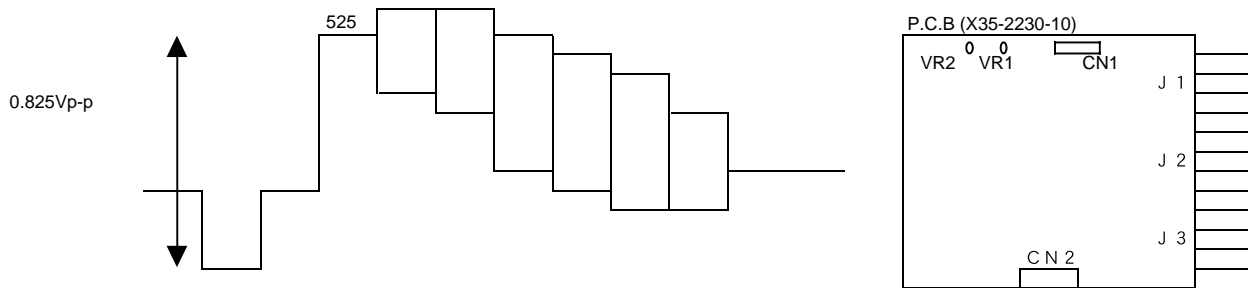
No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	ALIGNMENT POINTS	ALIGNMENT FOR	FIG.
1	SUB COLOR	PAL 75% COLOR BAR (NO SET UP)	Connect a component video output(Y) to oscilloscope with 75Ω.	VR2	(Adjust an amplitude of video signal.) 0.825Vp - p	FIG.1
2	CONTRAST	PAL 75% COLOR BAR (NO SET UP)	Connect a component video output(Cb,Cr) to oscilloscope with 75Ω.	VR1	(Adjust an amplitude of video signal.) ±0.525Vp - p	FIG.2

#### INSTRUMENTS CONNECTION

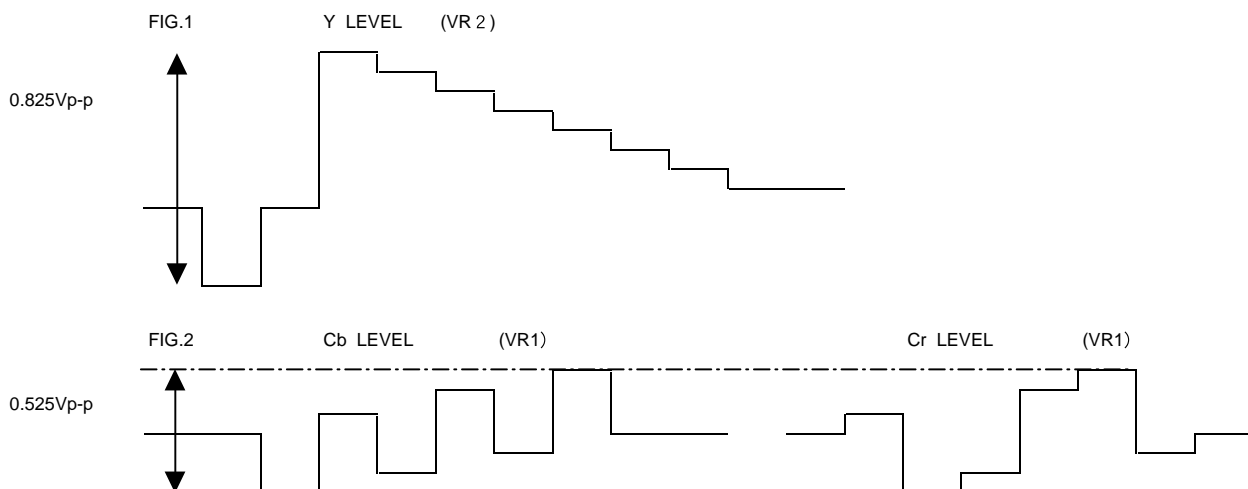


#### INPUT SIGNAL : 75% COLOR BAR SIGNAL

PARAMETER		WHITE	YELLOW	CYAN	GREEN	MAGENTA	RED	BLUE
LUMINANCE LEVEL	mV	525	465	368	308	217	157	60
	IRE							
CHROMA LEVEL	mV	0	470	664	620	620	664	470
	IRE							
CHROMA PHASE (deg)	+V		167	283	241	61	103	347
	-V		193	77	119	299	257	13



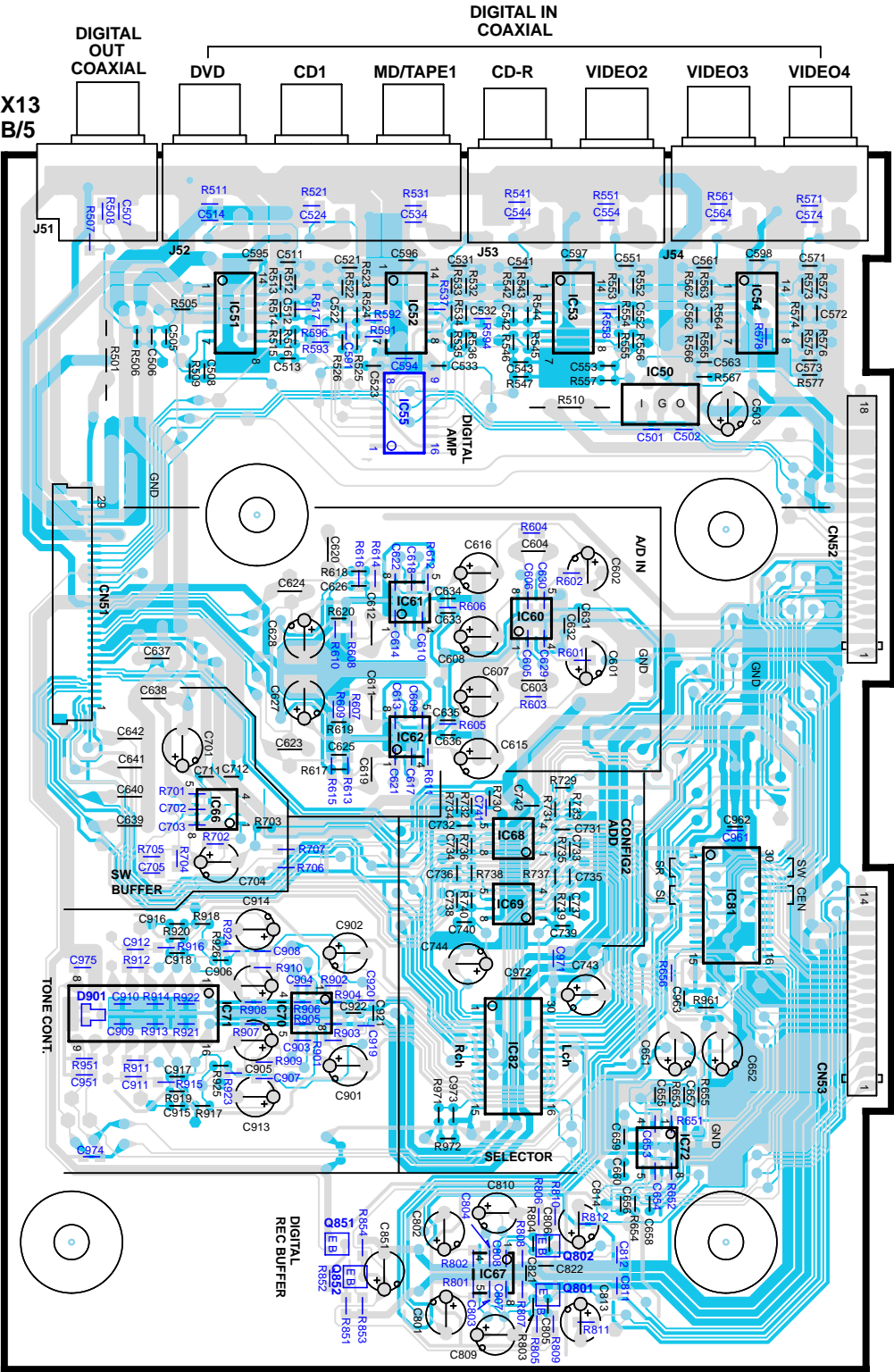
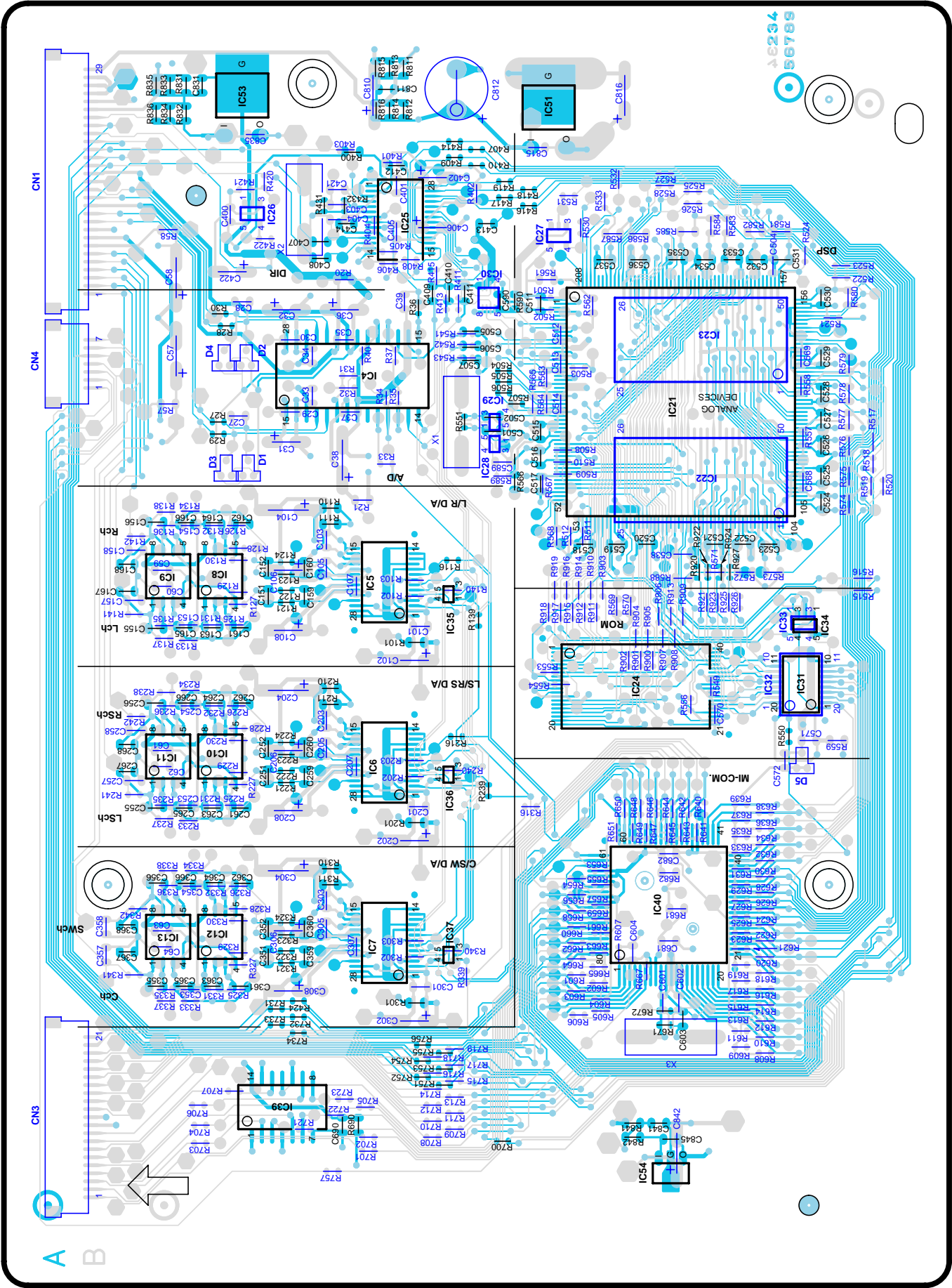
#### ADJUSTMENT OUTPUT SIGNAL :





PC BOARD(Component side view)

X08-3020-10 (J70-1361-22)



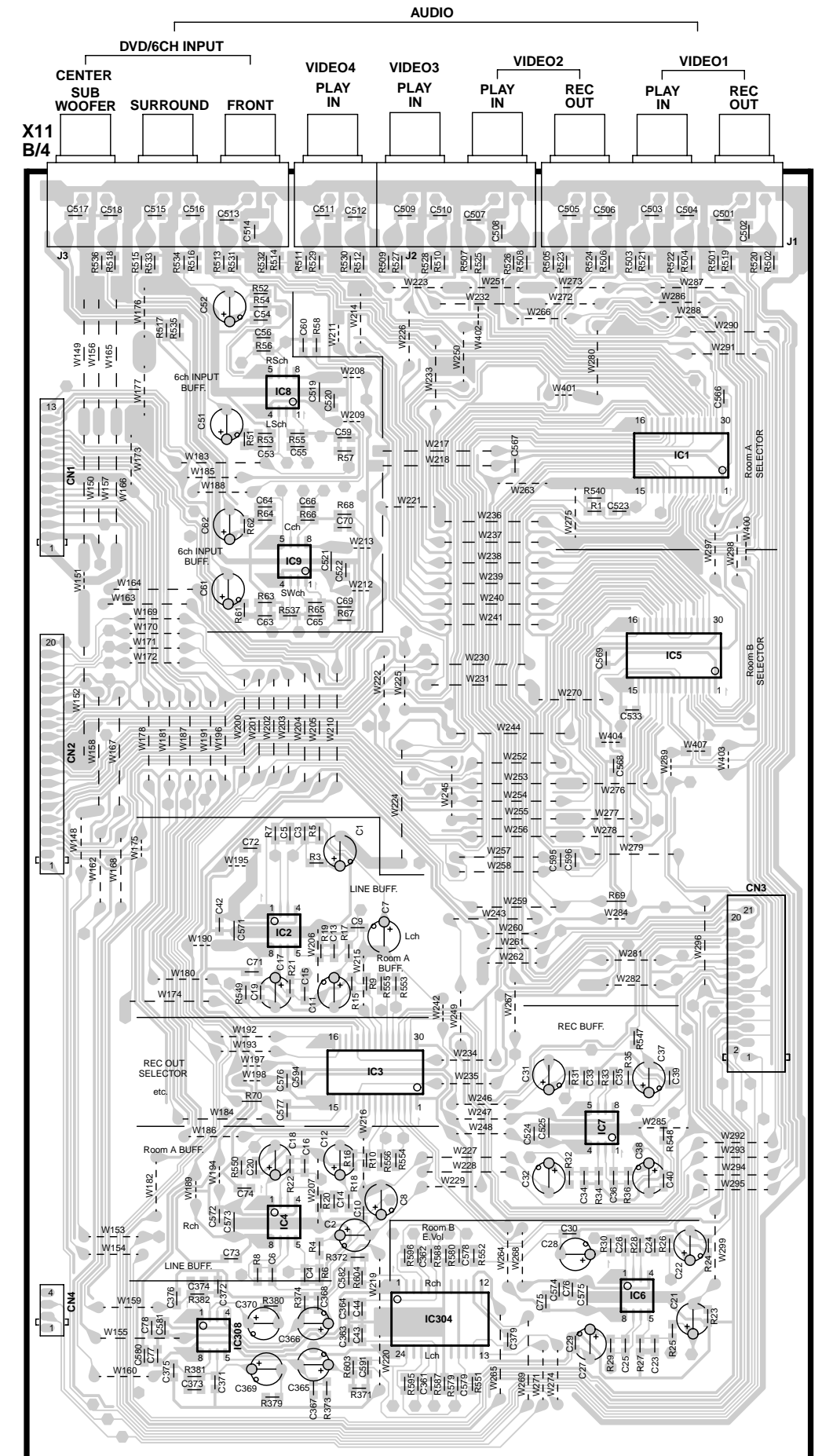
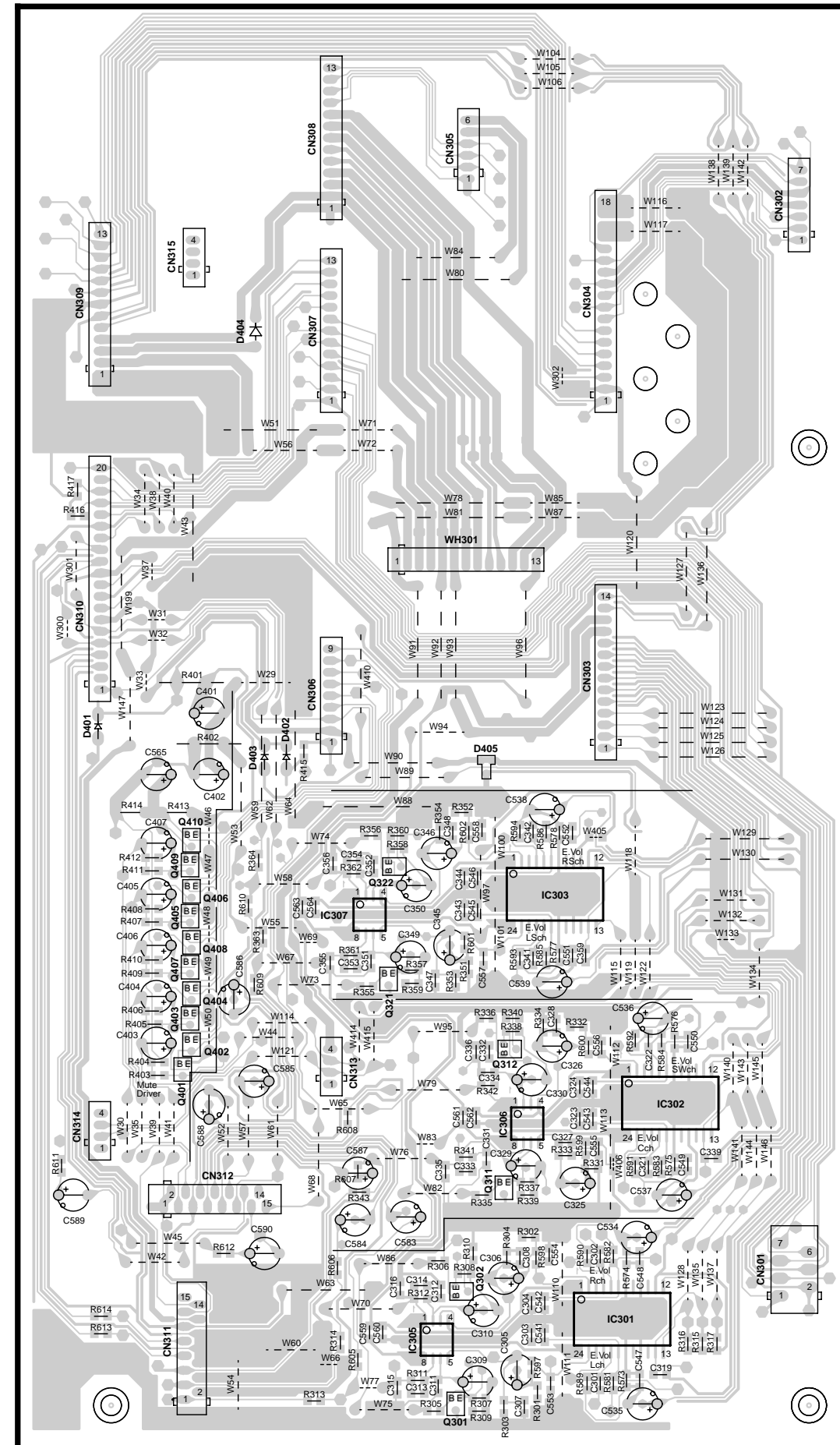
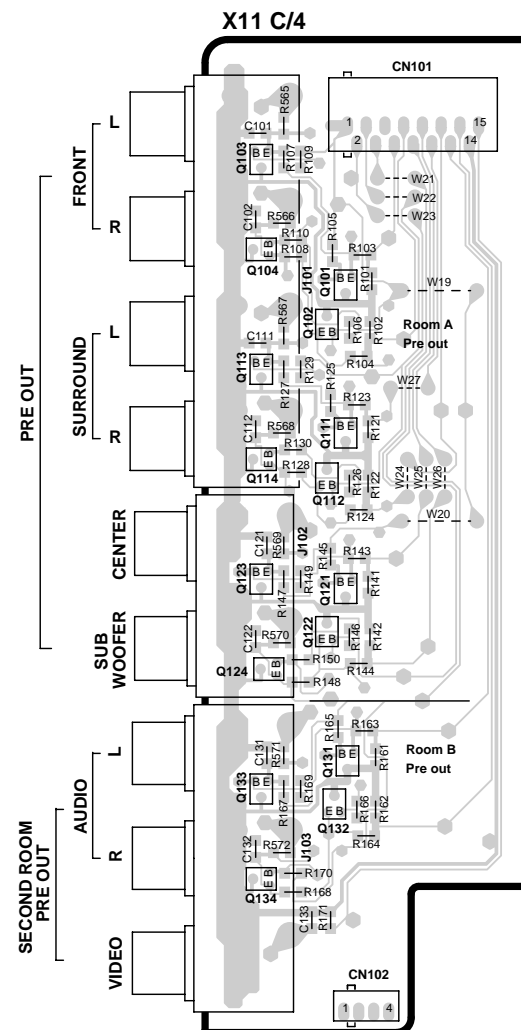
Refer to the schematic diagram for the value of resistors and capacitors.





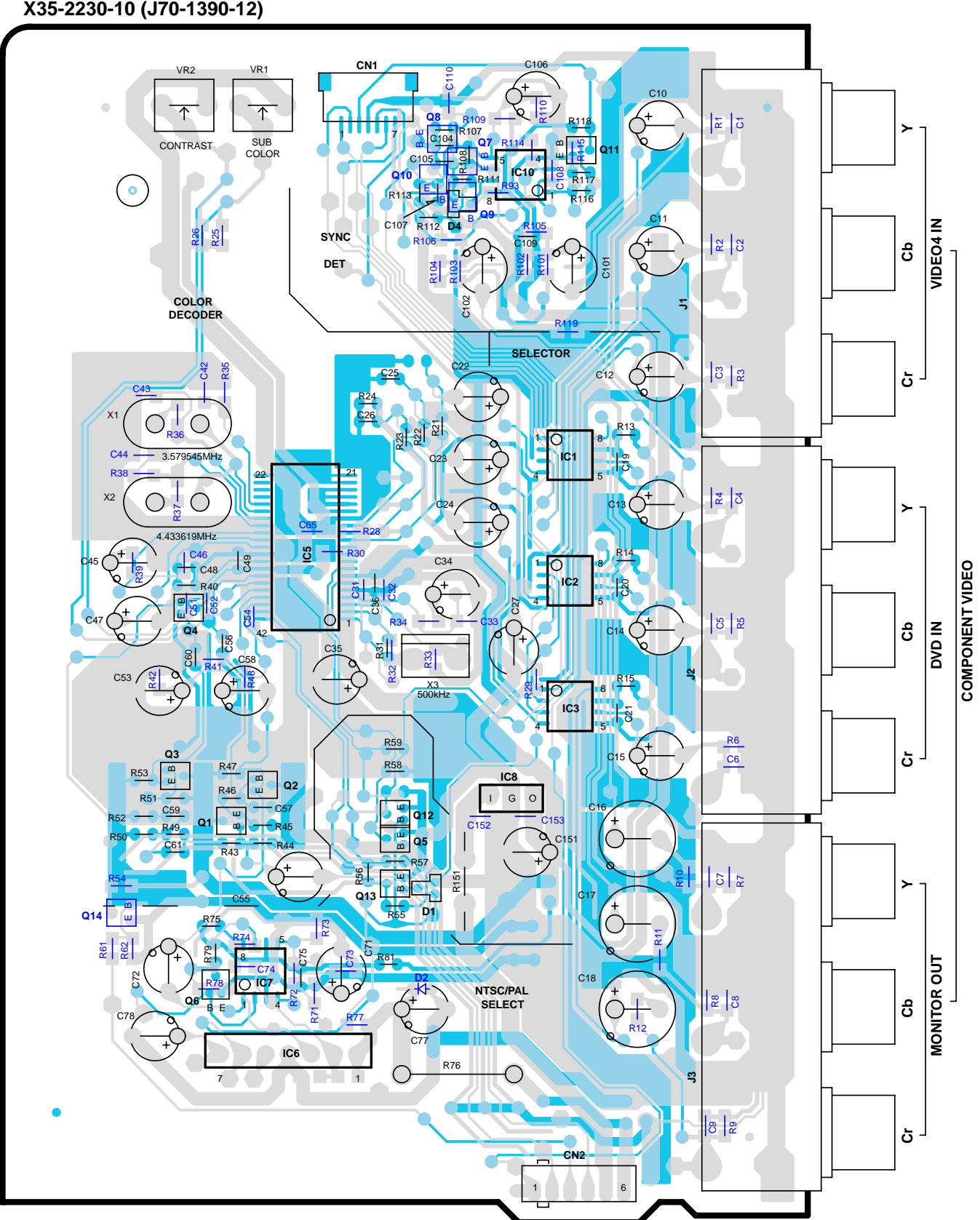
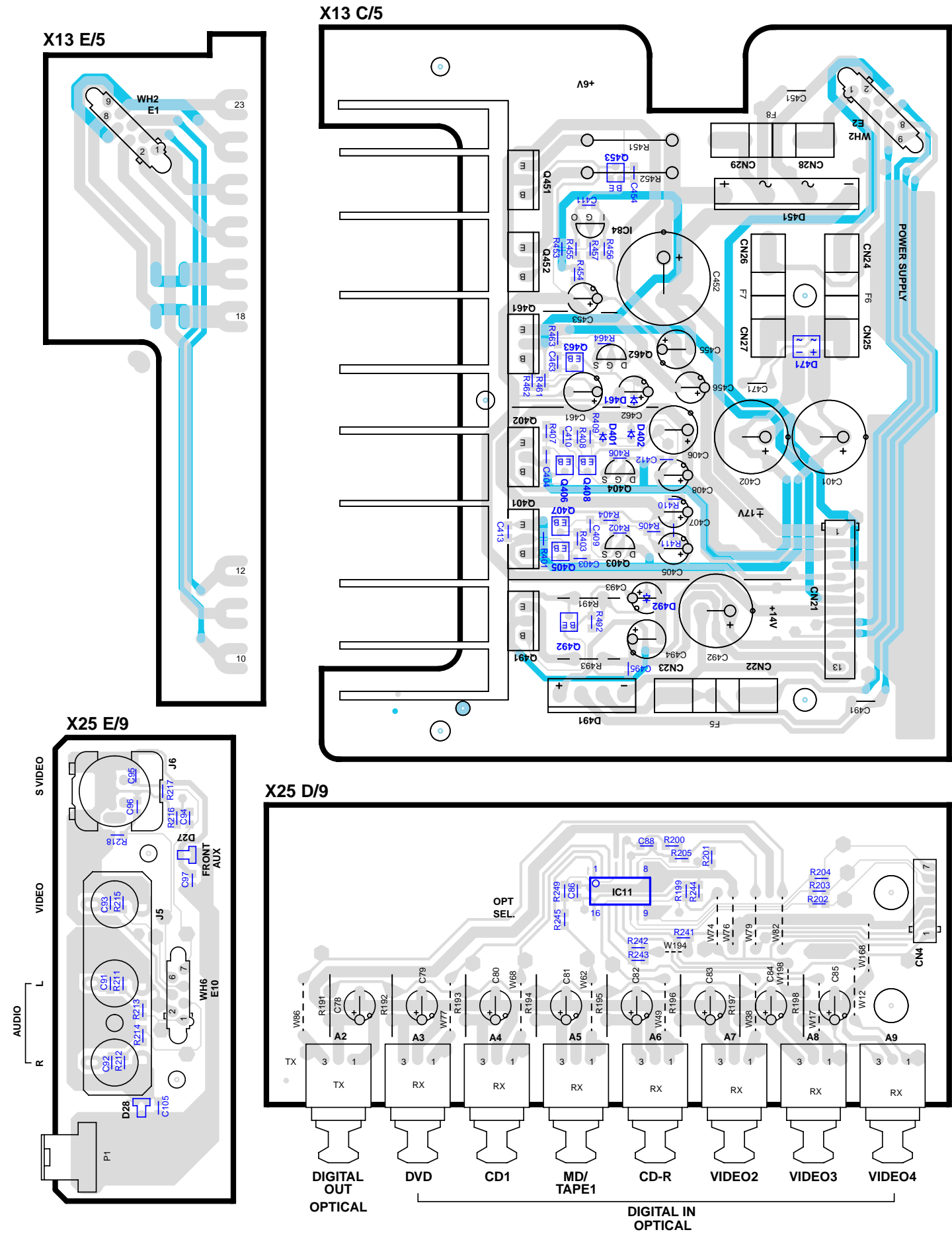
### PC BOARD(Component side view)

X11-3870-10 A/4 (J70-1388-11)



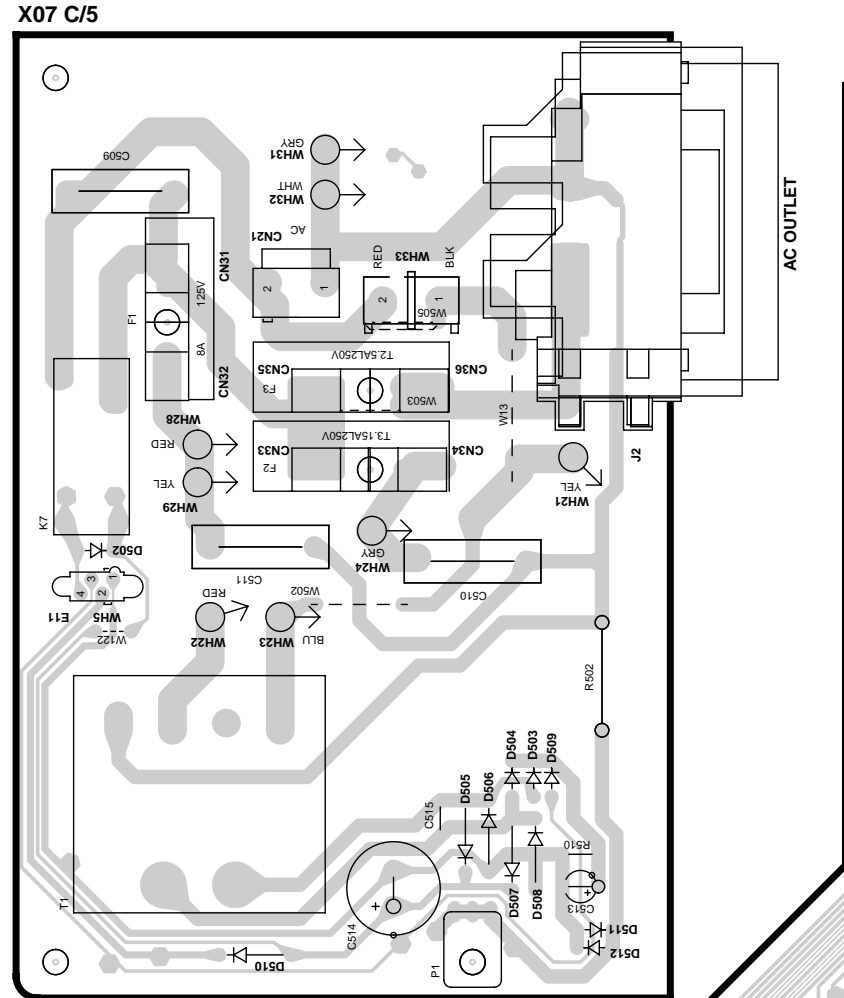
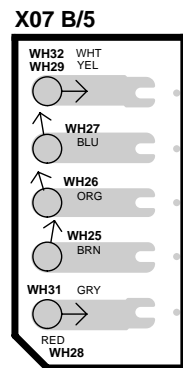
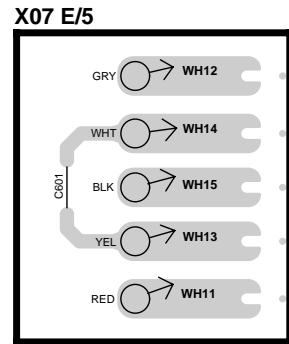
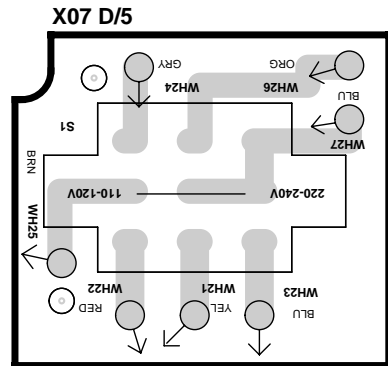
Refer to the schematic diagram for the value of resistors and capacitors.

PC BOARD(Component side view)

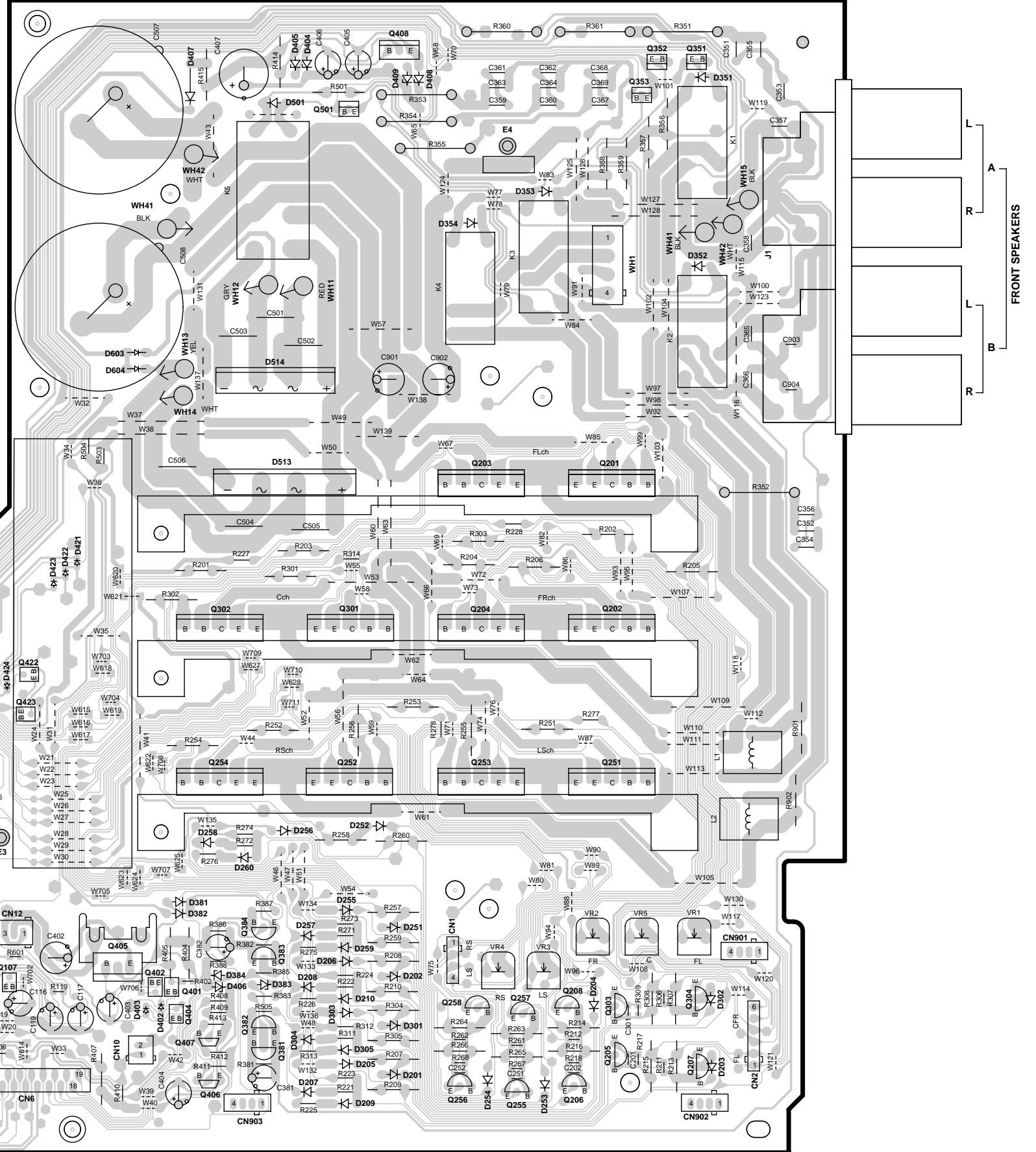




# PC BOARD (Component side view)

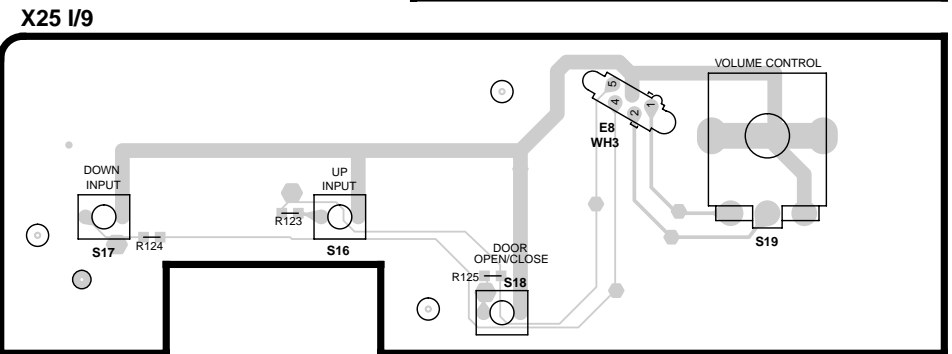
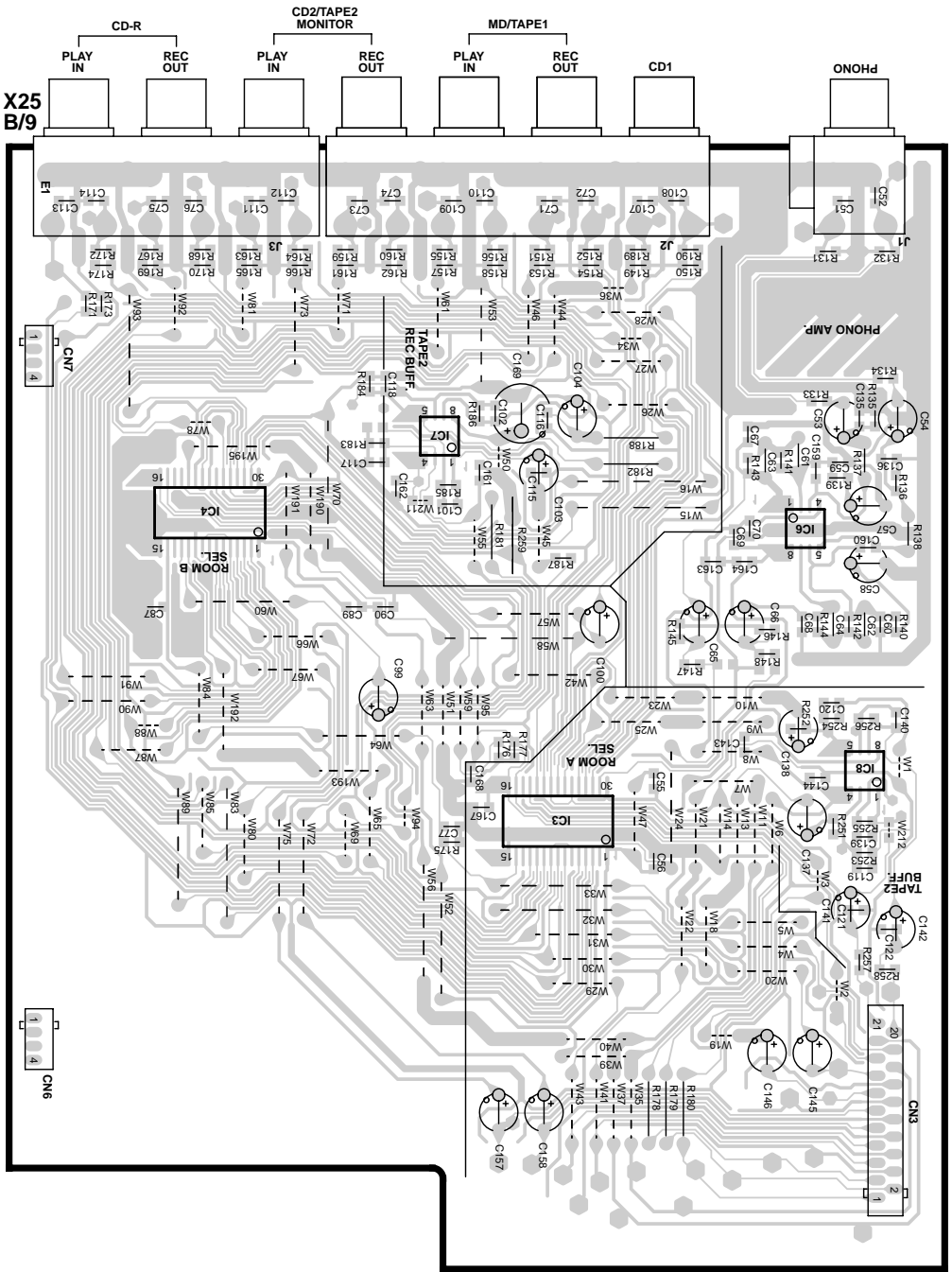
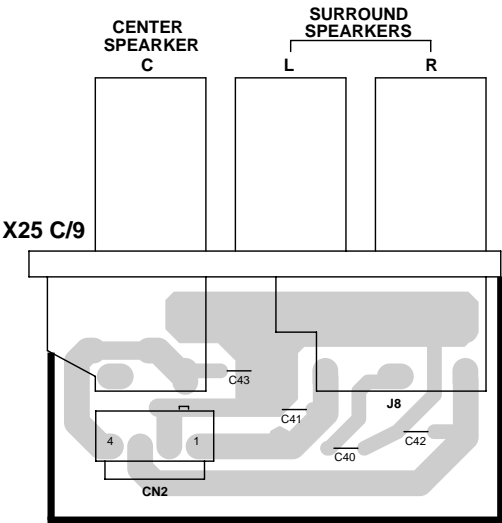
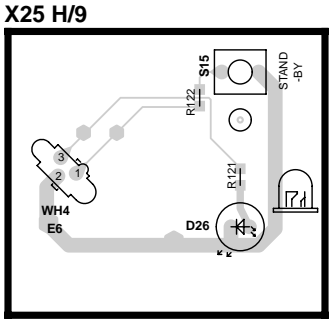
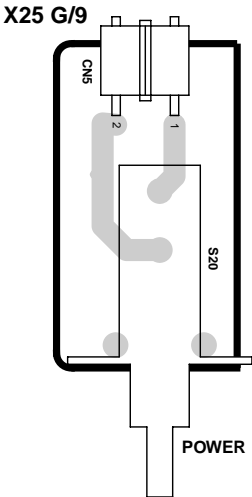
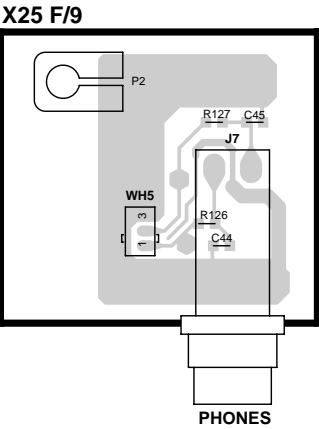
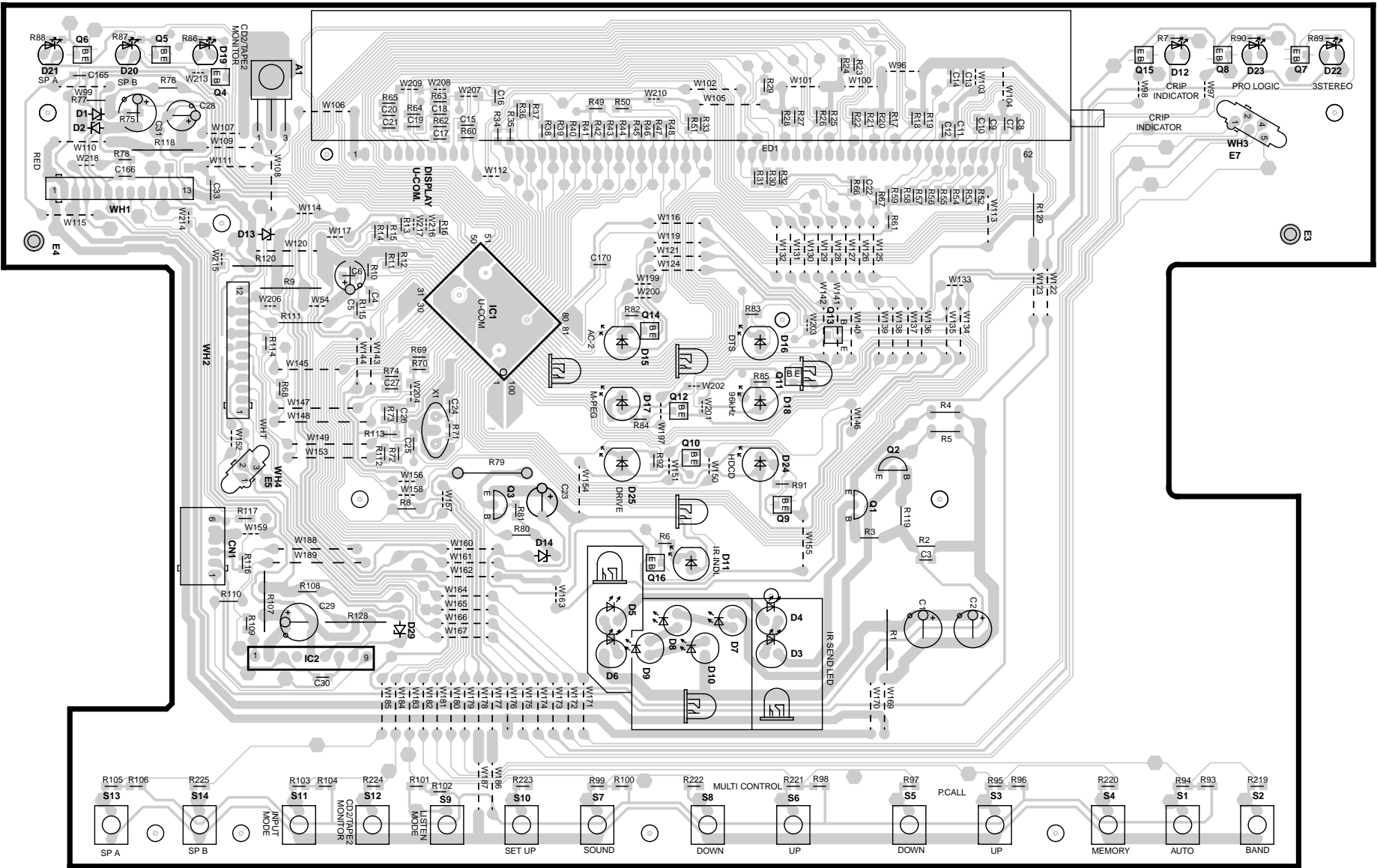


X07-3150-10 A/5 (J70-1389-11)



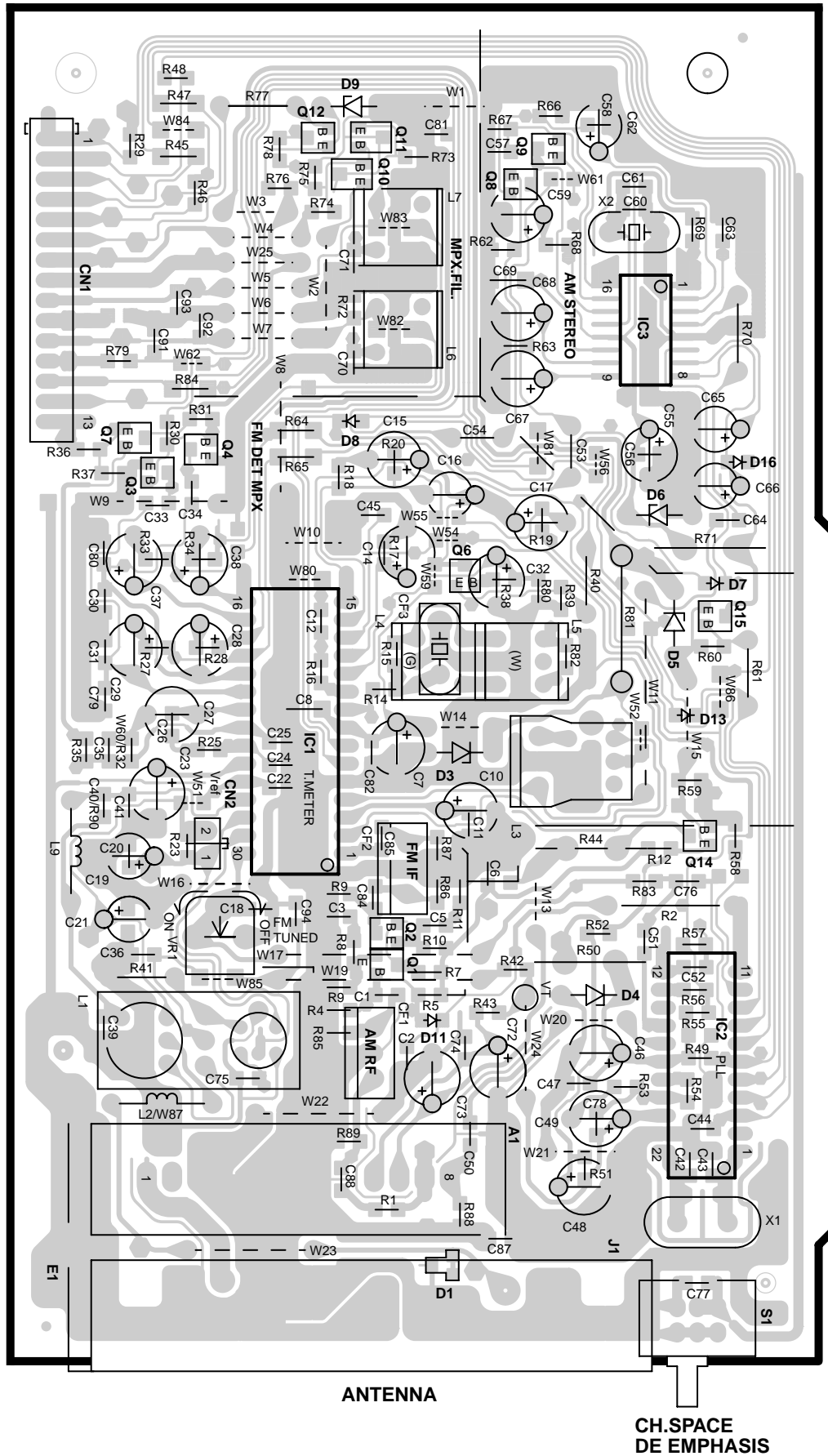
PC BOARD (Component side view)

X25-6320-10 A/9 (J70-1380-11)

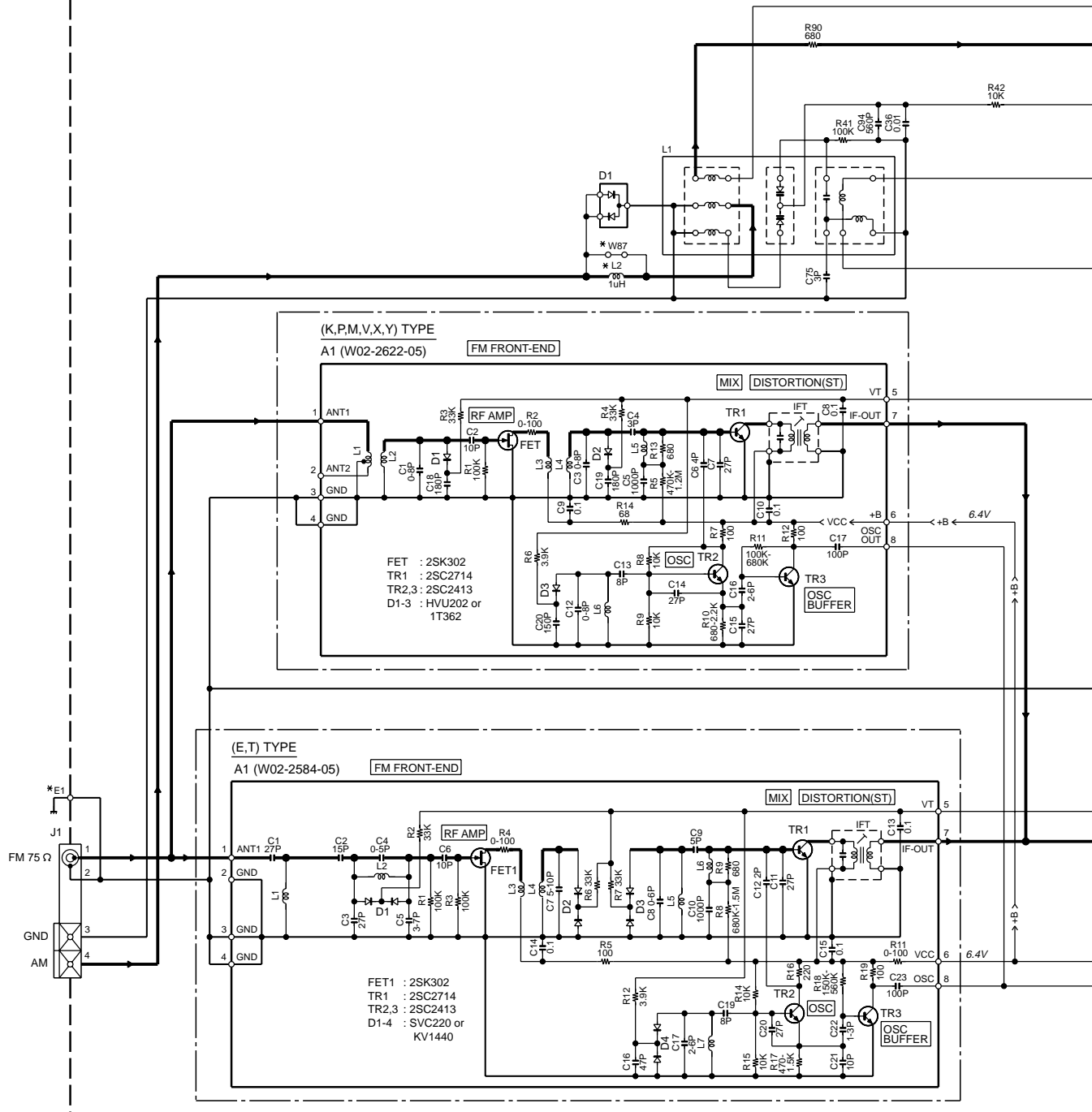


# PC BOARD (Component side view)

X05-5130-10 (J70-1381-11)



TUNER UNIT (X05-51XX-XX)



KRF-V7773D (X05-51XX-XX)

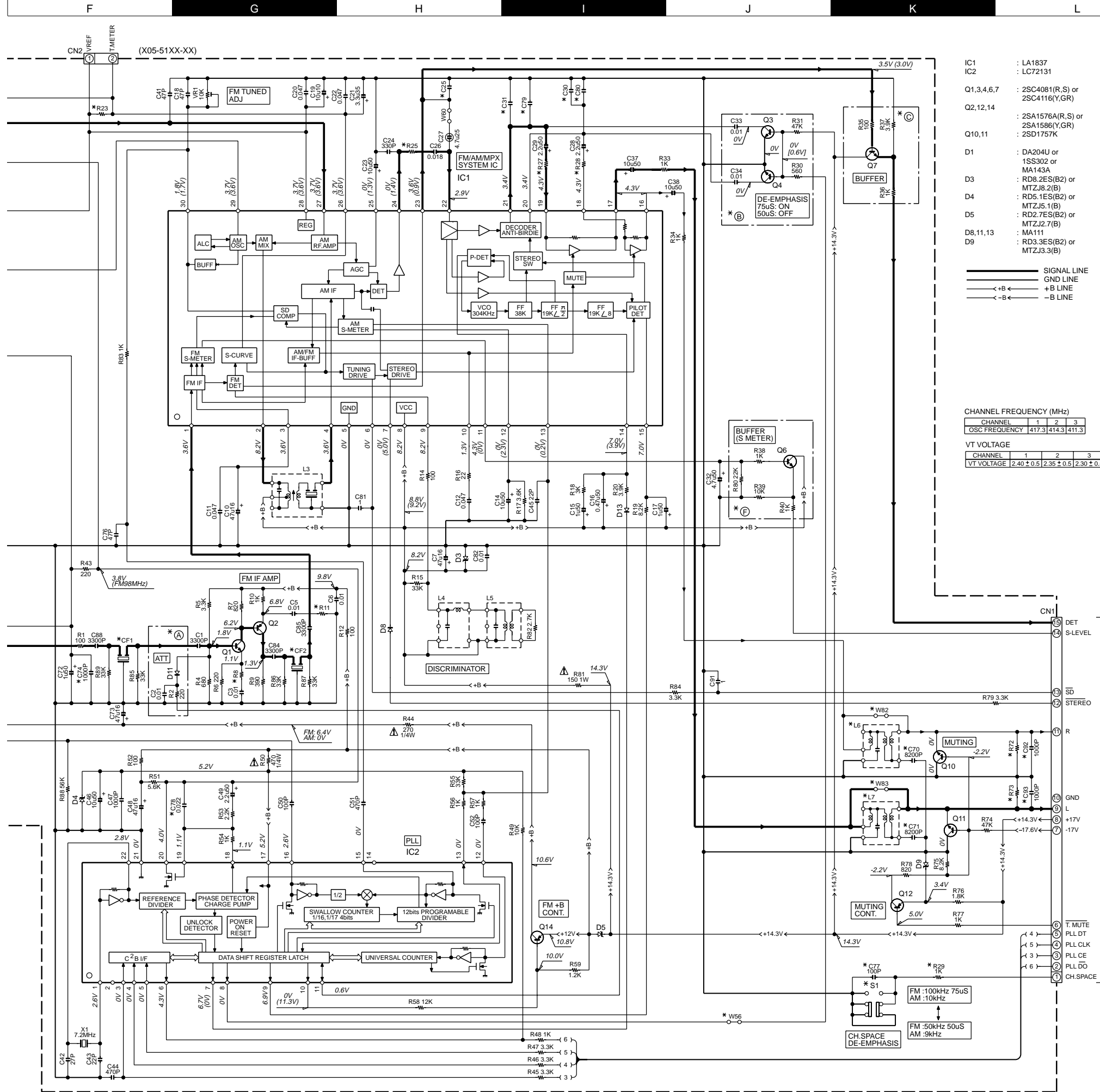
DESTINATION		UNIT No.	(A)	(C)	(F)	(B)	R8	R11	R23	R25	R27, 28	R29	R72, 73	C25	C30, 31	C70, 71	C74	C77	C78	C79, 80	C92, 93	L2, 6, 7	CF1,2	W56	W82, 83,87	S1	E1	
COUNTRY	ABB.																											
PX	Y	30-21				YES				4.7K	18K	6.8K	YES					YES		1500P	YES	NO	L72-0531 (MA5)	YES	YES	NO	F10-1108	
GENERAL MARKET	X	M			NO		33	33		6.8K				33K	330P	0.022	NO	YES	YES	YES	1200P	YES	NO		NO	NO		F10-1109
AUSTRALIA	X	M	30-71			NO							NO					NO	YES					NO	NO	NO	F10-1109	
EUROPE	E	T	32-71	YES			10	22	15K	27K	4.3K			3.9K	180P		YES	NO	YES		4700P	NO	YES	L72-0536 (MS3)	NO	NO		F10-1109
SHANGHAI	V	T	42-10	NO	YES	YES	33	33	4.7K	18K	6.8K	YES	YES	33K	330P		NO	YES	YES	YES	1500P	YES	NO	L72-0531 (MA5)	YES	YES	YES	F10-1108

KRF-V7773D-B (X05-513X-71)

DESTINATION			UNIT No.	(A)	(C)	(F)	(B)	R8	R11	R23	R25	R27, 28	R29	R72, 73	C25	C30, 31	C70, 71	C74, 77, 92, 93	C79, 80	L2, 6, 7	CF1,2	W56, 82, 83, 87	S1	E1
COUNTRY	ABB.																							
U.K	T		2-71	YES	NO	NO	10	22	15K	27K	4.3K	NO	3.9K	180P	0.022	YES	NO	4700P	YES	L72-0536 (MS3)	NO	NO	F10-1109	
EUROPE	E																							

KRF-V9993D (X05-513X-XX)

DESTINATION		ABB.	UNIT No.	(A)	(C)	(F)	(B)	R8.	R11	R23	R25	R27, 28	R29	R72, 73	C25	C30, 31	C70, 71	C74	C77	C78	C79, 80	C92, 93	L2, 6, 7	CF1,2	W56	W82, 83, 87	S1	E1
GENERAL MARKET	M	M	0-21				YES	33	33	4.7K	18K	6.8K	YES	33K	330P	0.022	NO	YES	YES		1500P	YES	NO	L72-0531 (MA5)	YES	YES	YES	F10-1108
AUSTRALIA	X	X	0-71				NO	10	22	15K	27K	4.3K	NO	3.9K	180P	0.022	YES	NO	NO	YES	1200P	NO	YES	L72-0536 (MS3)	NO	NO	NO	F10-1109
U.K.	T	T	2-71	YES																								
EUROPE	E	E																										



- IC1 : LA1837  
 IC2 : LC72131  
 Q1,3,4,6,7 : 2SC4081(R,S) or 2SC4116(Y,GR)  
 Q2,12,14 : 2SA1576A(R,S) or 2SA1586(Y,GR)  
 Q10,11 : 2SD1757K  
 D1 : DA204U or 1SS302 or MA143A  
 D3 : RD8.2ES(B2) or MTZJ8.2(B)  
 D4 : RD5.1ES(B2) or MTZJ5.1(B)  
 D5 : RD2.7ES(B2) or MTZJ2.7(B)  
 D8,11,13 : MA111  
 D9 : RD3.3ES(B2) or MTZJ3.3(B)

SIGNAL LINE  
 GND LINE  
 +B LINE  
 -B LINE

CHANNEL FREQUENCY (MHz)

CHANNEL	1	2	3
OSC FREQUENCY	417.3	414.3	411.3

VT VOLTAGE

CHANNEL	1	2	3
VT VOLTAGE	2.40 ± 0.5	2.35 ± 0.5	2.30 ± 0.5

**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  $\Delta$  indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter as the AM/FM signal generator is specified to the conditions as shown in the list below. The measurement value may vary depending on the measuring instruments used or on the product. The value shown in ( ) is actual reading measured in the AM mode.

MODE	CARRIER	MODULATION		ANT INPUT
		FREQUENCY	DEVIATION	
FM	98MHz	1kHz	STEREO 67.5kHz 7.5kHz(Pilot)	60dB
AM	1000(999)kHz	400Hz	MONO 30% MOD	60dB

KRF-V7773D/V7773D-B/V9993D

KENWOOD

KRF-V9993D (X08-3020-11)				
DESTINATION	ABB	UNIT	R751-	CN4
COUNTRY	Y	No.	756	
GENERAL MARKET	M			
AUSTRALIA	X	0-11	YES	YES
U.K.	T			
EUROPE	E			

KRF-V7773D (X08-30XX-XX)				
DESTINATION	ABB	UNIT	R751-	CN4
COUNTRY	Y	No.	756	
GENERAL MARKET	M			
AUSTRALIA	X	20-10	NO	NO
EUROPE	E			
SHANGHAI	V	32-10		

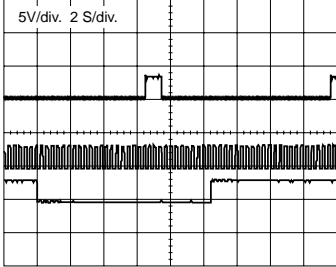
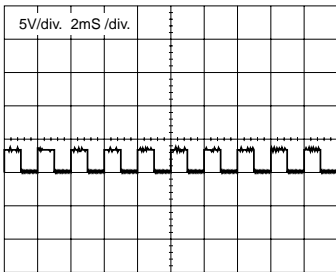
KRF-V7773D-B (X08-3020-10)				
DESTINATION	ABB	UNIT	R751-	CN4
COUNTRY	Y	No.	756	
GENERAL MARKET	M			
AUSTRALIA	X	0-10	NO	NO
EUROPE	E			
U.K.	T			

(X08-3032-10)		(X08-3020-10)	
IC4	: AK5383-VS	IC5	: AK4393-VF
IC8-13	: NJM4565MD	IC21	: ADSST-AUDIO35
IC22, 23	: HY57V16160DTC	IC24	: 49BV008A1AKB
IC25	: AK4112-VF	IC26, 27	: TC7S04F
IC28, 29	: TC7SHU04FU	IC30	: TC7WH34FK
IC31, 32	: TC74LVX573FT	IC33	: TC7SH02F
IC34	: TC7SH32F	IC35-37	: TC7S08FU
IC39	: TC74VHC125F	IC40	: uPD784036C851
IC51	: uPC2933T	IC53	: uPC2905T
IC54	: uPC29L33T		

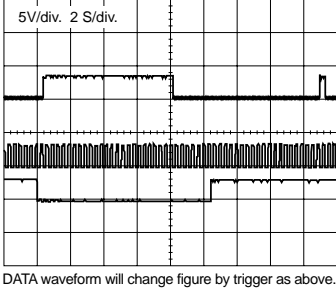
D1-5 : DA204U



X08, IC21 (76pin)  
FLG11 waveform in JAZZ club selected to TAPE.



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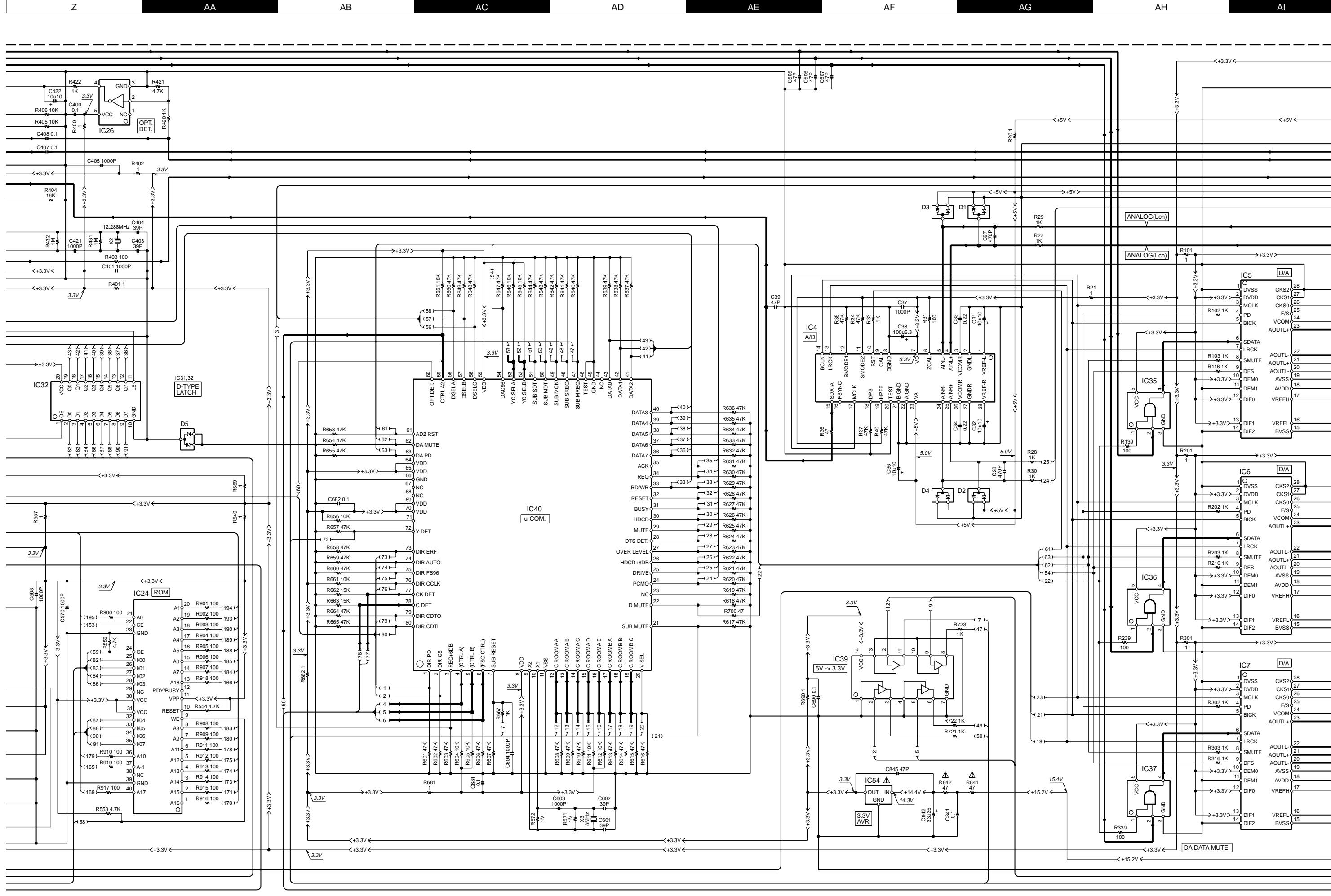
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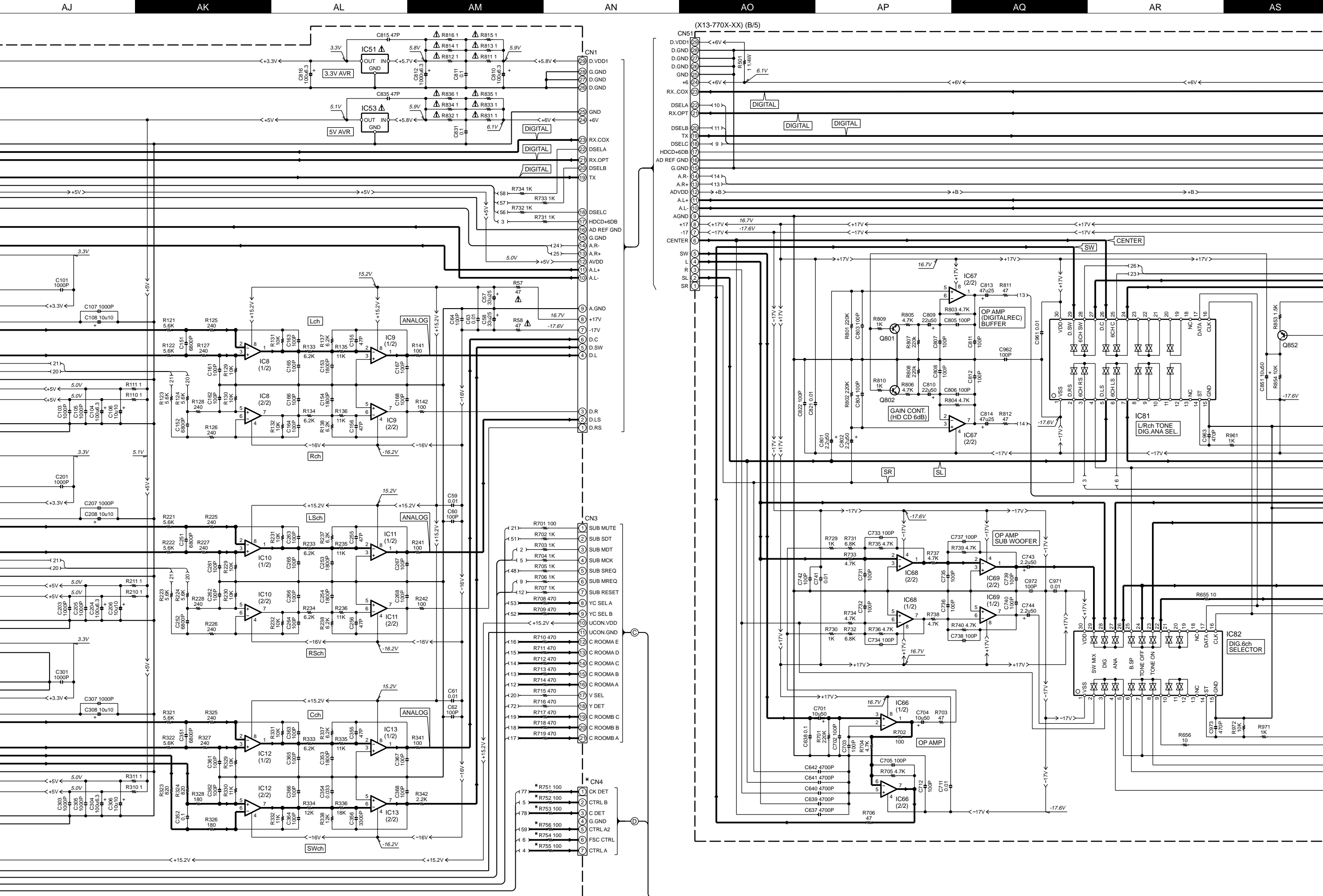
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IC262

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IC263

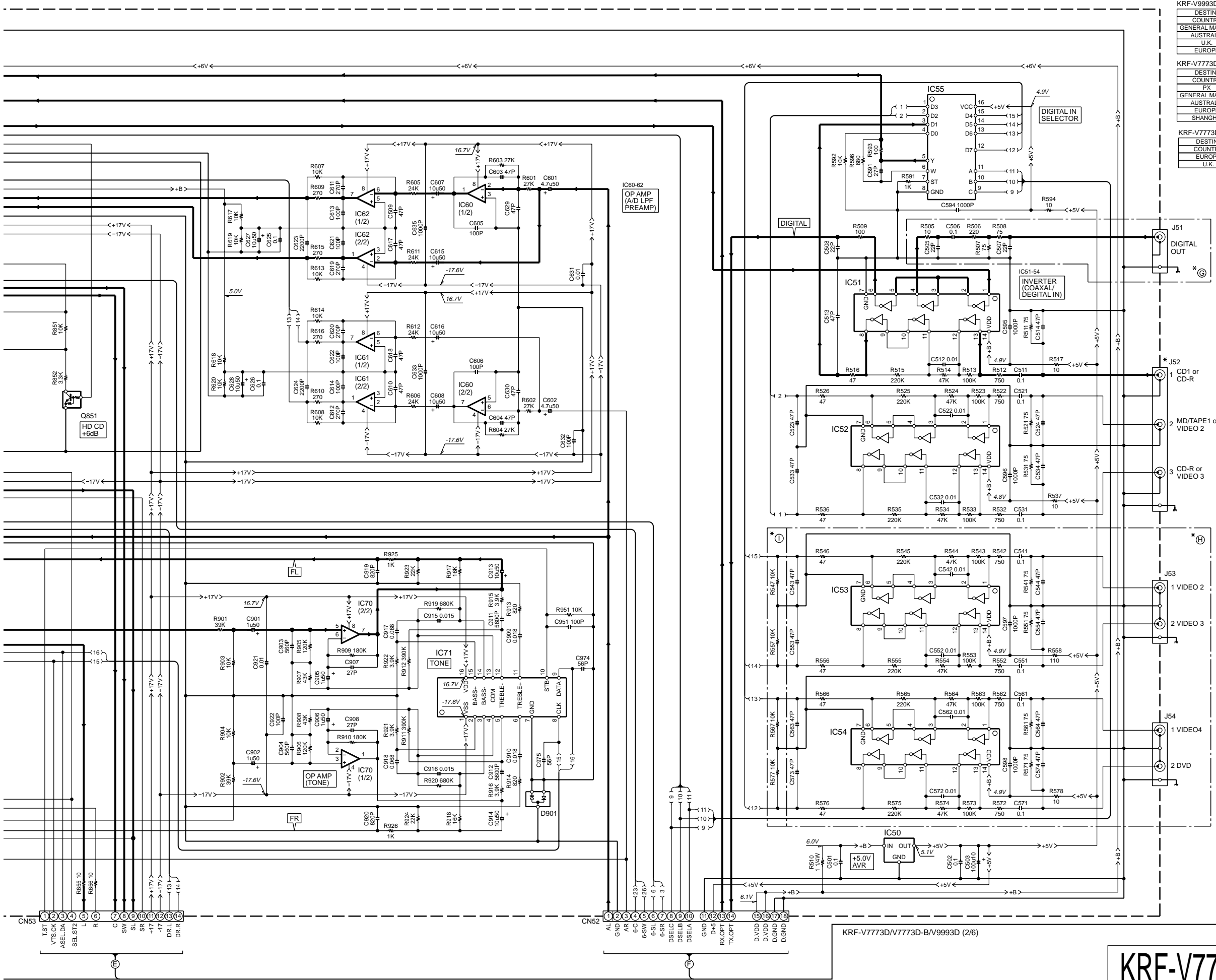
INVERTER  
IC264

INVERTER  
IC265









KRF-V9993D (X13-770X-XX)

DESTINATION	UNIT	ⓐ	ⓑ	ⓒ	ⓓ	J52
COUNTRY	ABB. No.					
GENERAL MARKET	M 0-22					
AUSTRALIA	X 0-72	YES		NO		E63-1130-05
U.K.	T 2-72					
EUROPE	E					

KRF-V7773D (X13-77XX-XX)

DESTINATION	UNIT	ⓐ	ⓑ	ⓒ	ⓓ	J52
COUNTRY	ABB. No.					
PX	Y 02-91					
GENERAL MARKET	M 00-21					
AUSTRALIA	X 00-71	NO		YES		E63-1129-05
EUROPE	E 02-71					
SHANGHAI	V 42-10					

KRF-V7773D-B (X13-7702-71)

DESTINATION	UNIT	ⓐ	ⓑ	ⓒ	ⓓ	J52
COUNTRY	ABB. No.					
EUROPE	E 2-71	NO		YES		E63-1129-05
U.K.	T					

SIGNAL LINE

GND LINE

+B LINE

-B LINE

- (X13-770X-XX)
- IC50

IC51-54

IC55

IC60-62,66-70

IC71

IC81

IC82
- : uPC2905HF

: TC74HCJ04AF

: TC74HC151AF

: NJM4565MD

: TC9184AP

: NJU7311AM

: NJU7312AM
- Q801,802

Q851

Q852
- : 2SC4213(B)

: DTC124EUA or UN5212

: 2SA1576A(R,S) or 2SA1586(Y,GR)
- D901

: DA204U

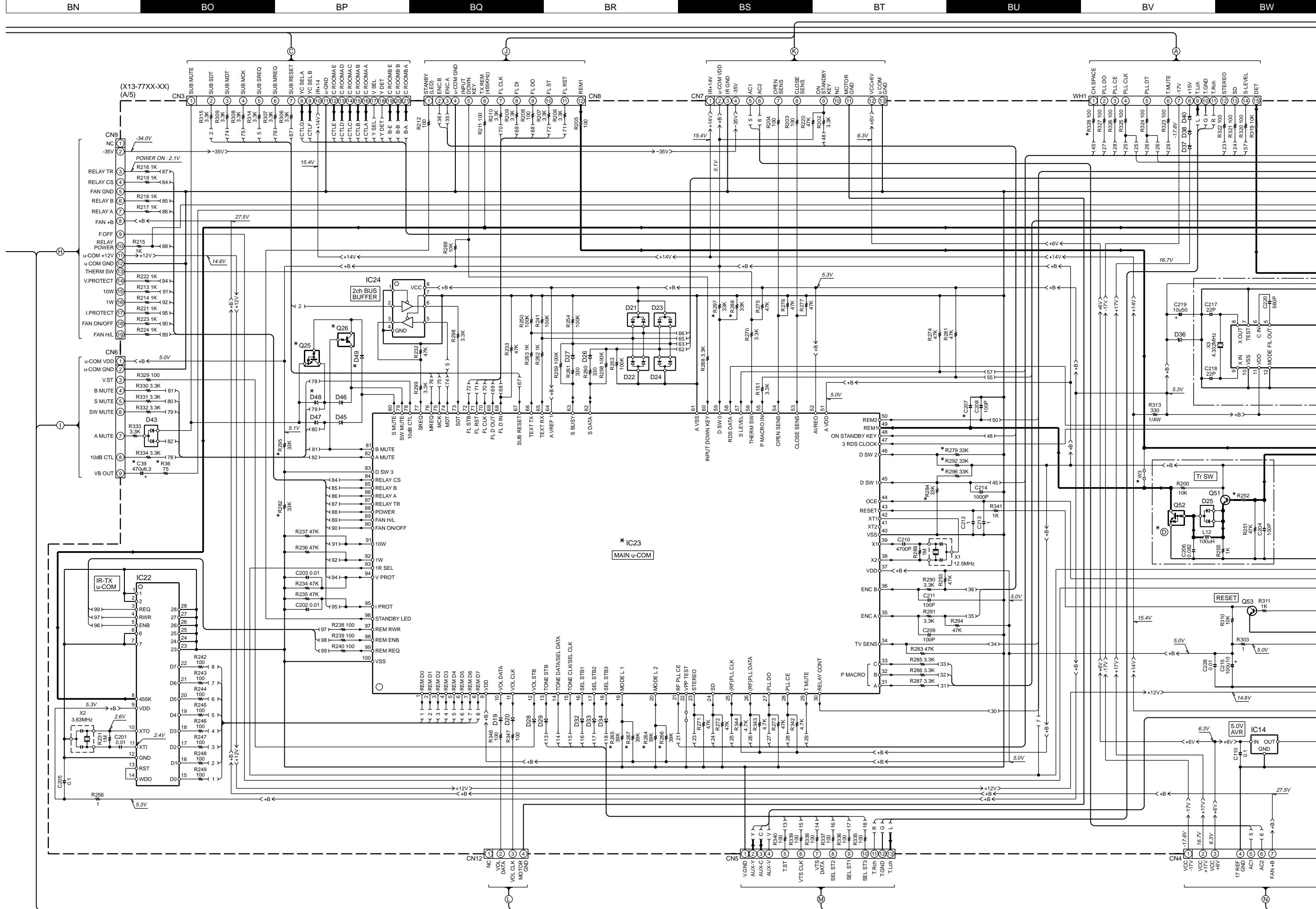
**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

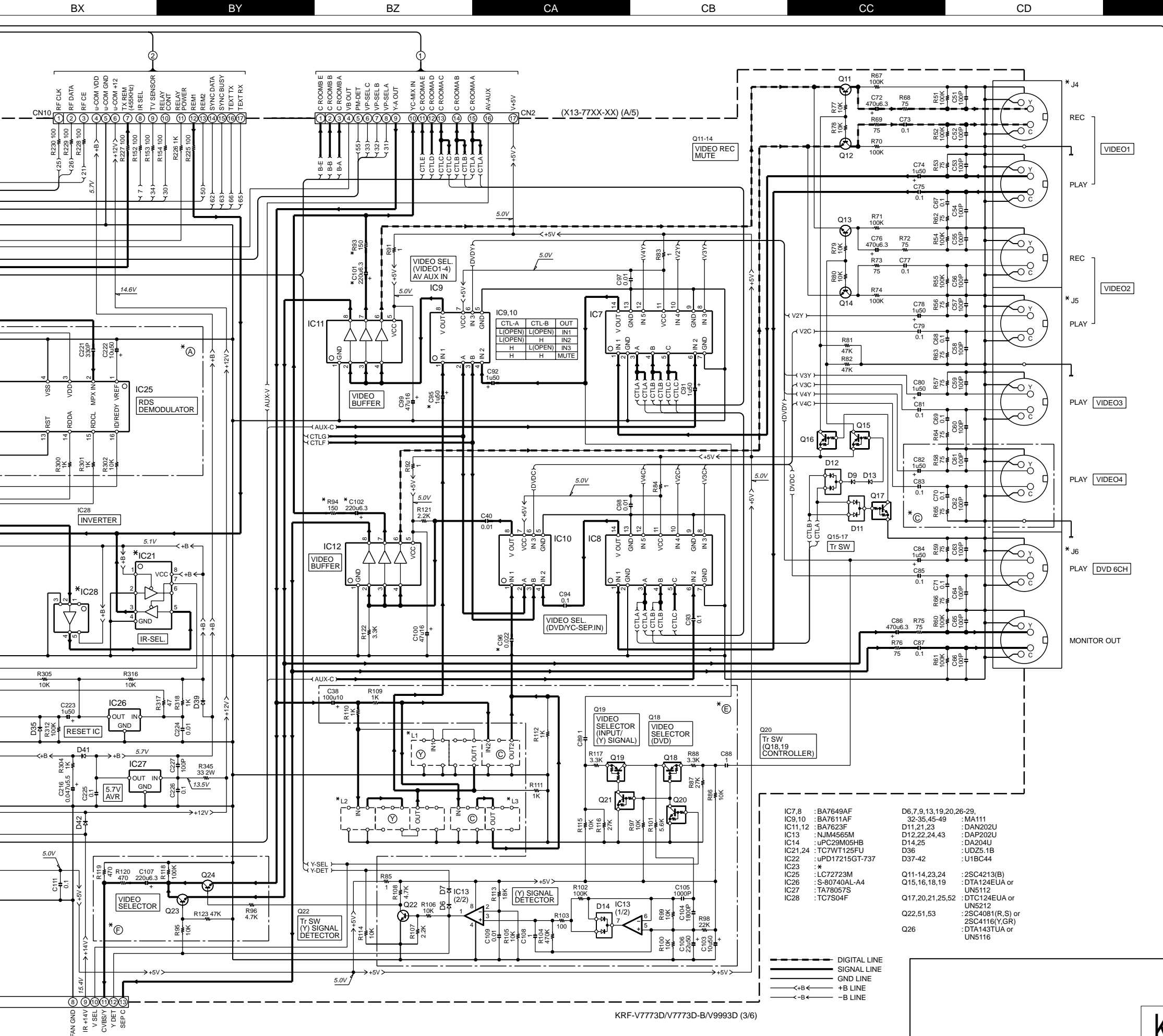
The DC voltage is an actual reading measured with a high impedance type voltmeter with a cassette loaded at playback mode. The measurement value may vary depending on the measuring instruments used or on the product. Bias circuit DC voltage is measured while in the record mode.

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KRF-V7773D/V7773D-B/V9993D (2/6)





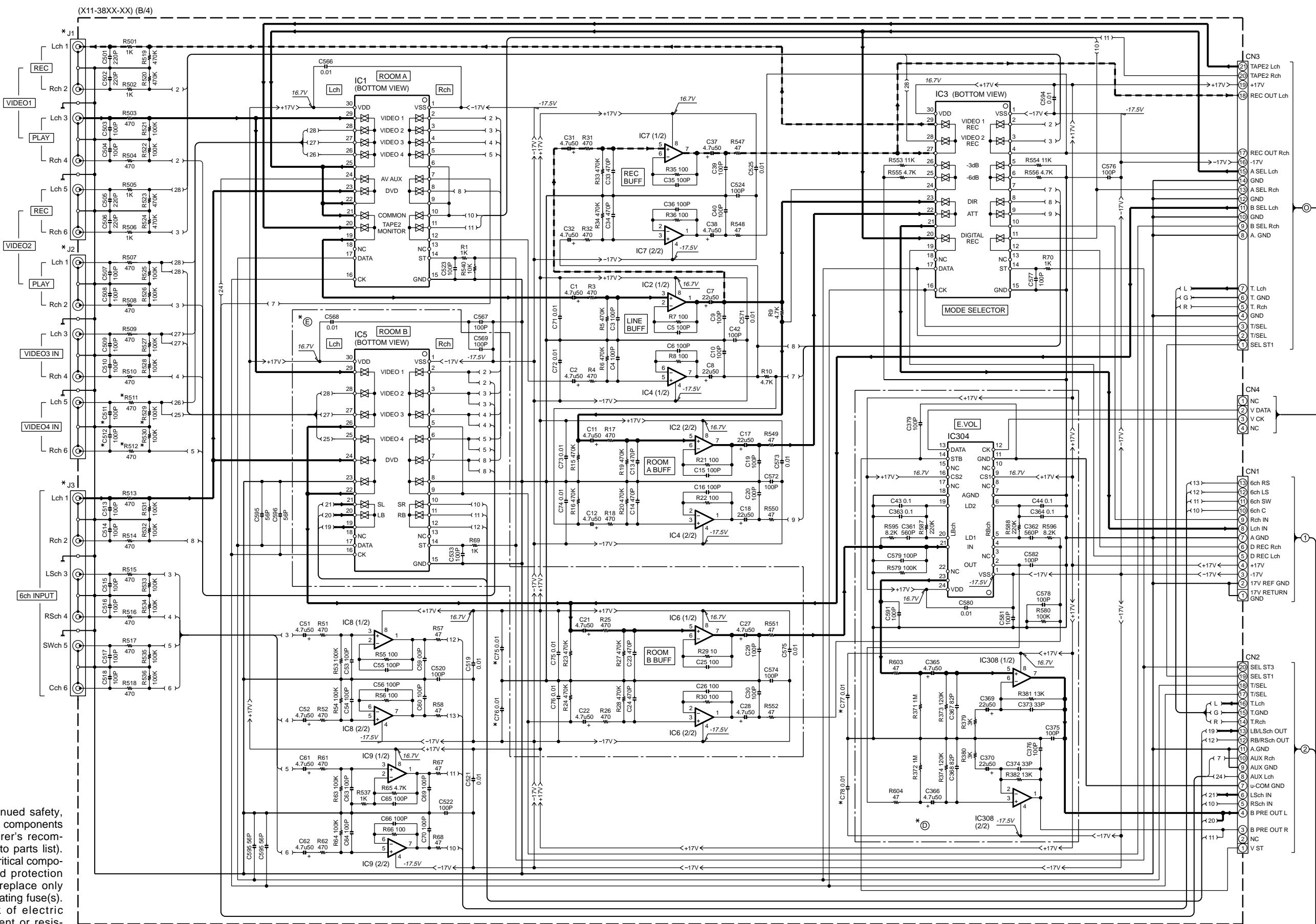


KRF-V7773D/V7773D-B/V9993D (3/6)

- |         |                  |                        |           |
|---------|------------------|------------------------|-----------|
| IC7,8   | : BA7649AF       | D6,7,9,13,19,20,26-29, |           |
| IC9,10  | : BA7611AF       | 32-35,45-49            | : MA111   |
| IC11,12 | : BA7623F        | D11,21,23              | : DAN202U |
| IC13    | : NJM4565M       | D12,22,24,43           | : DAP202U |
| IC14    | : uPC29M05HB     | D14,25                 | : DA204U  |
| IC21,24 | : TC7WT125FU     | D36                    | : UDZ5.1B |
| IC22    | : uPD17215GT-737 | D37-42                 | : U1BC44  |
| IC23    | : *              |                        |           |
| IC25    | : LC72723M       |                        |           |
| IC26    | : S-80740AL-A4   |                        |           |
| IC27    | : TA78057S       |                        |           |
| IC28    | : TC7S04F        |                        |           |
- 
- |                 |                                 |
|-----------------|---------------------------------|
| Q11-14,23,24    | : 2SC4213(B)                    |
| Q15,16,18,19    | : DTA124EUA or UN5112           |
| Q17,20,21,25,52 | : DTC124EUA or UN5212           |
| Q22,51,53       | : 2SC4081(R,S) or 2SC4116(Y,GR) |
| Q26             | : DTA143TUA or UN5116           |

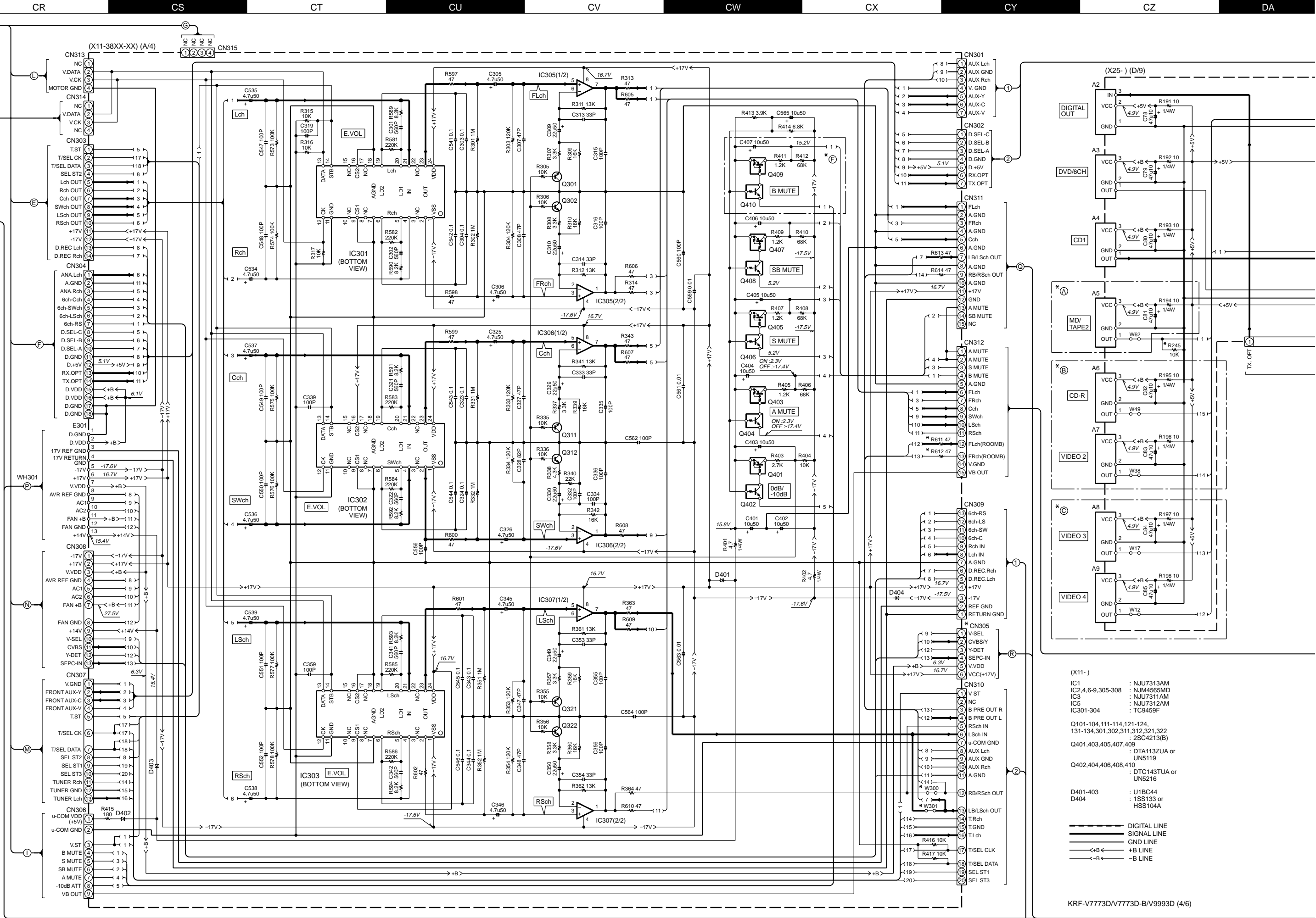
X25-A/9 -WH2 6/6 J X25-A/9 -WH1 6/6 K	1SS301 A2 A1 C	2SK246 S G
	TC74HCU04AF TC74VHC125F	LC72131 12 1
NJU7311AM NJU7312AM NJU7313AM	TC7S08FU 3 2 1 4 5	AK4393-VF 15 28 14
UPC29M05HB	LM431AIZ	S-80740AL-A4 1 2 3
TC7S04F 56 29 28	LA1837 30 16 1	TC7SHU04FU 4 5 3 1
X11-A/4 -CN315 4/6 G X07-A/5 -CN6 5/6 H X11-A/4 -CN306 4/6 I X11-A/4 -CN313 4/6 L X11-A/4 -CN307 4/6 M X11-A/4 -CN308 4/6 N	BA7626F 16 9 8 1	UPC2905HF INPUT OUTPUT GND
TA78057S UPC2933T	UPC29L33T OUTPUT GND INPUT	UPC1830GT 22 42 21 1

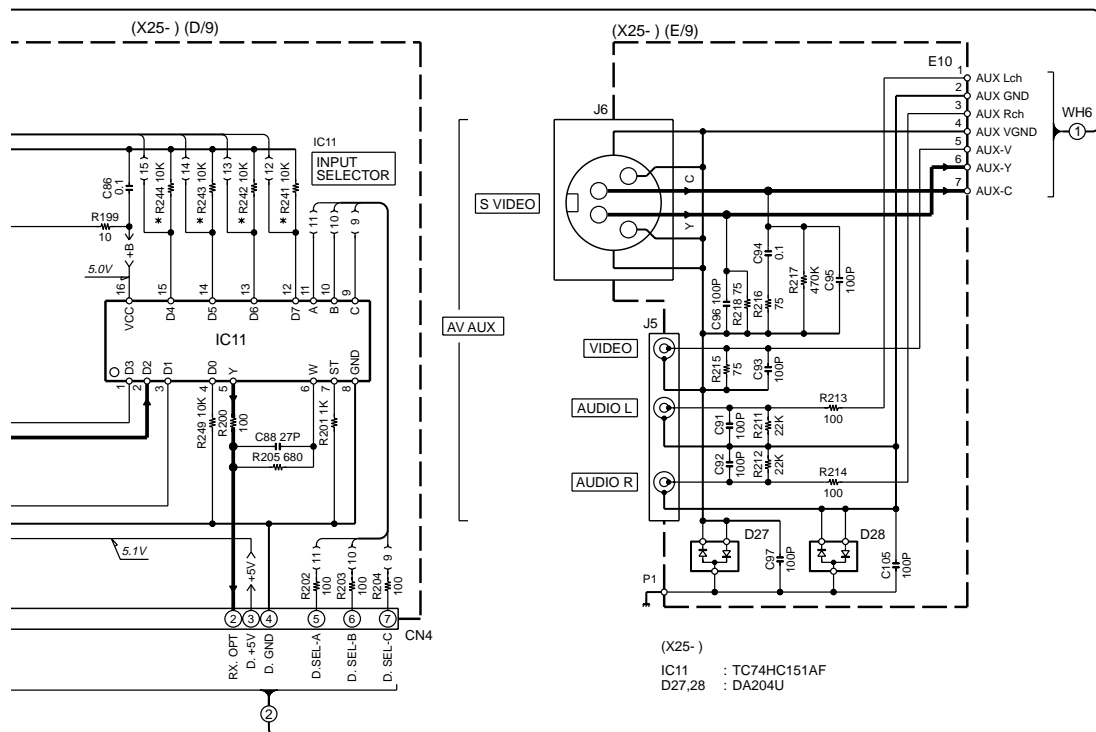
X13-B/5  
-CN53  
2/6  
(E)  
X13-B/5  
-CN52  
2/6  
(F)  
X13-D/5  
-CN11  
3/6  
(G)  
X13-A/5  
-CN6  
3/6  
(I)  
X13-A/5  
-CN12  
3/6  
(L)  
X13-A/5  
-CN5  
3/6  
(M)  
X13-A/5  
-CN4  
3/6  
(N)



**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter. The measurement value may vary depending on the measuring instruments used or on the product. Refer to the voltage during PLAY unless otherwise specified; The value shown in ( ) is the voltage measured at the moment of STOP.



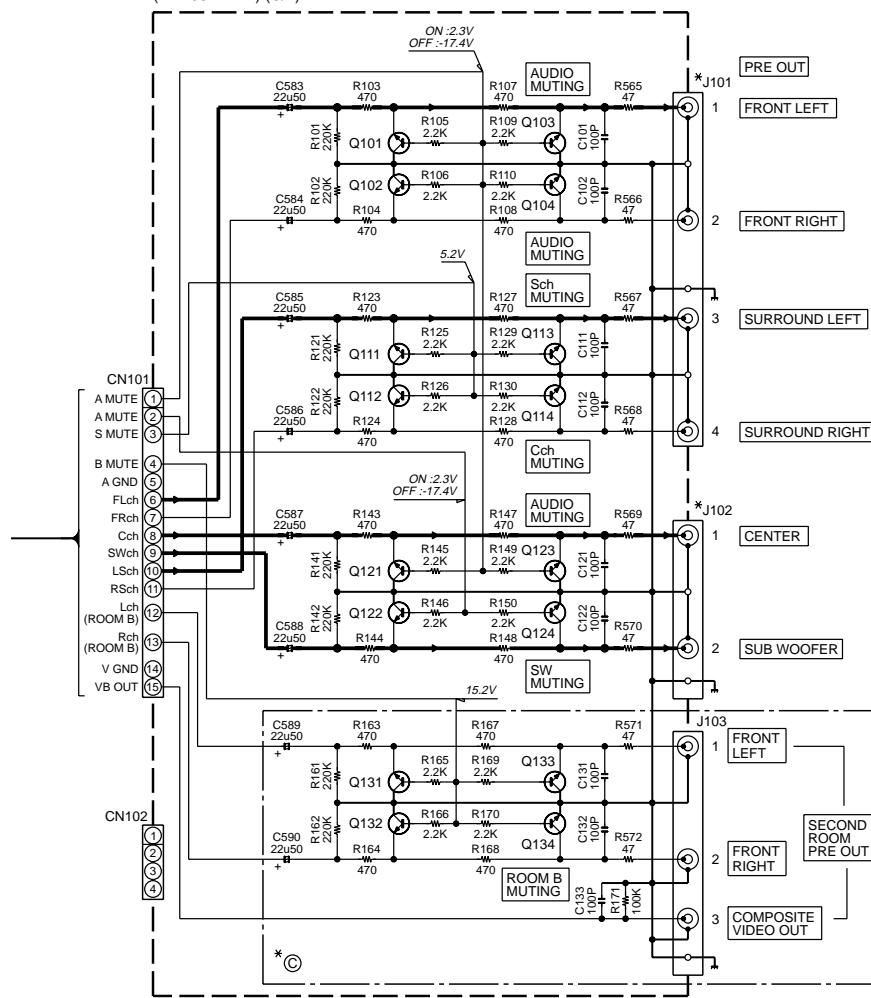


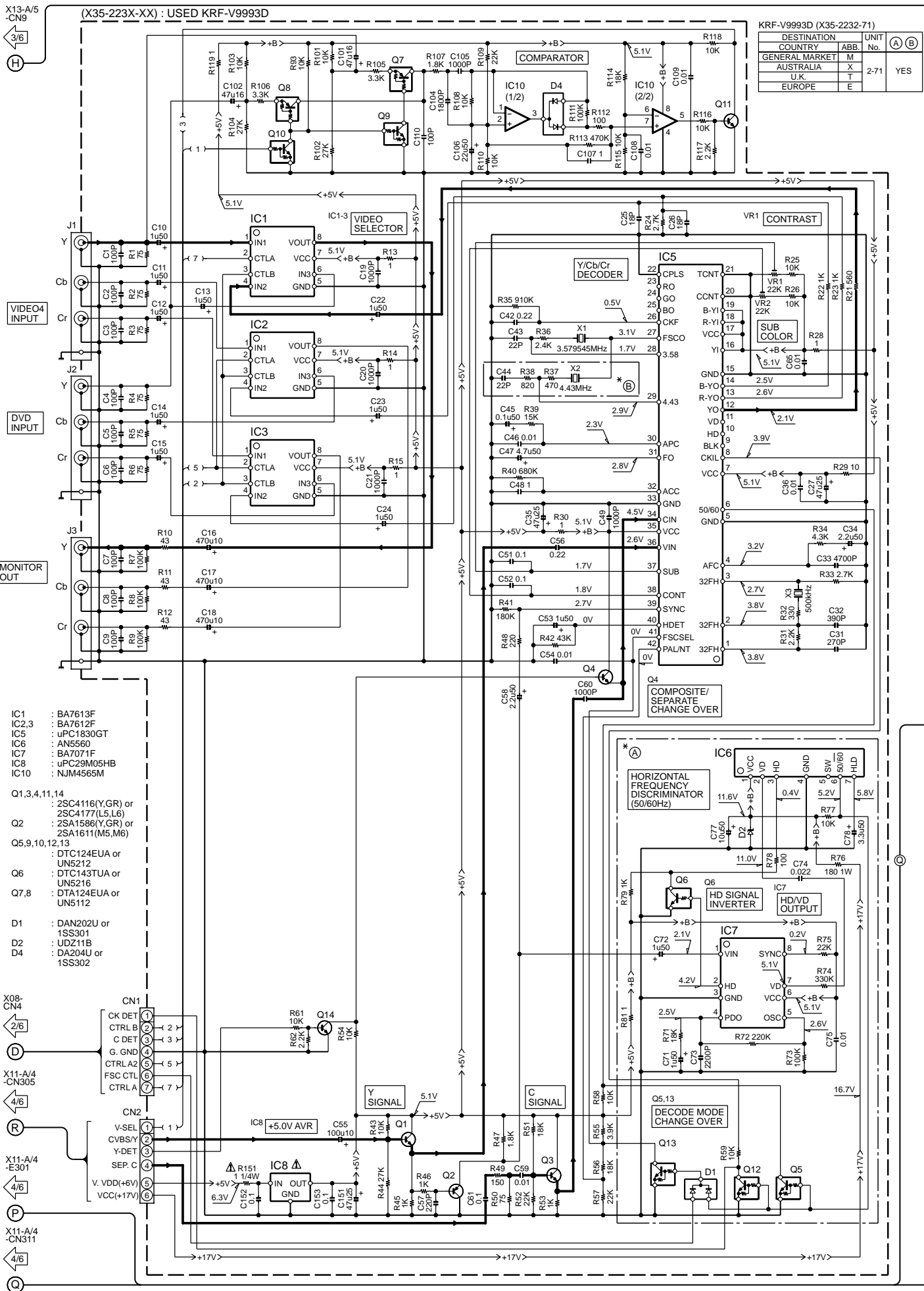
KRF-V7773D (X25-63XX-XX)									
DESTINATION	COUNTRY	ABB.	UNIT No.	(A)	(B)	(C)	R241-245		
PX		Y	72-91						
GENERAL MARKET		M	22-71						
AUSTRALIA		X							
EUROPE		E							
SHANGHAI		V	62-10						

KRF-V9993D (X25-6322-71)									
DESTINATION	COUNTRY	ABB.	UNIT No.	(A)	(B)	(C)	R241-245		
PX		Y	72-91						
GENERAL MARKET		M	22-71						
AUSTRALIA		X							
EUROPE		E							
SHANGHAI		V	62-10						

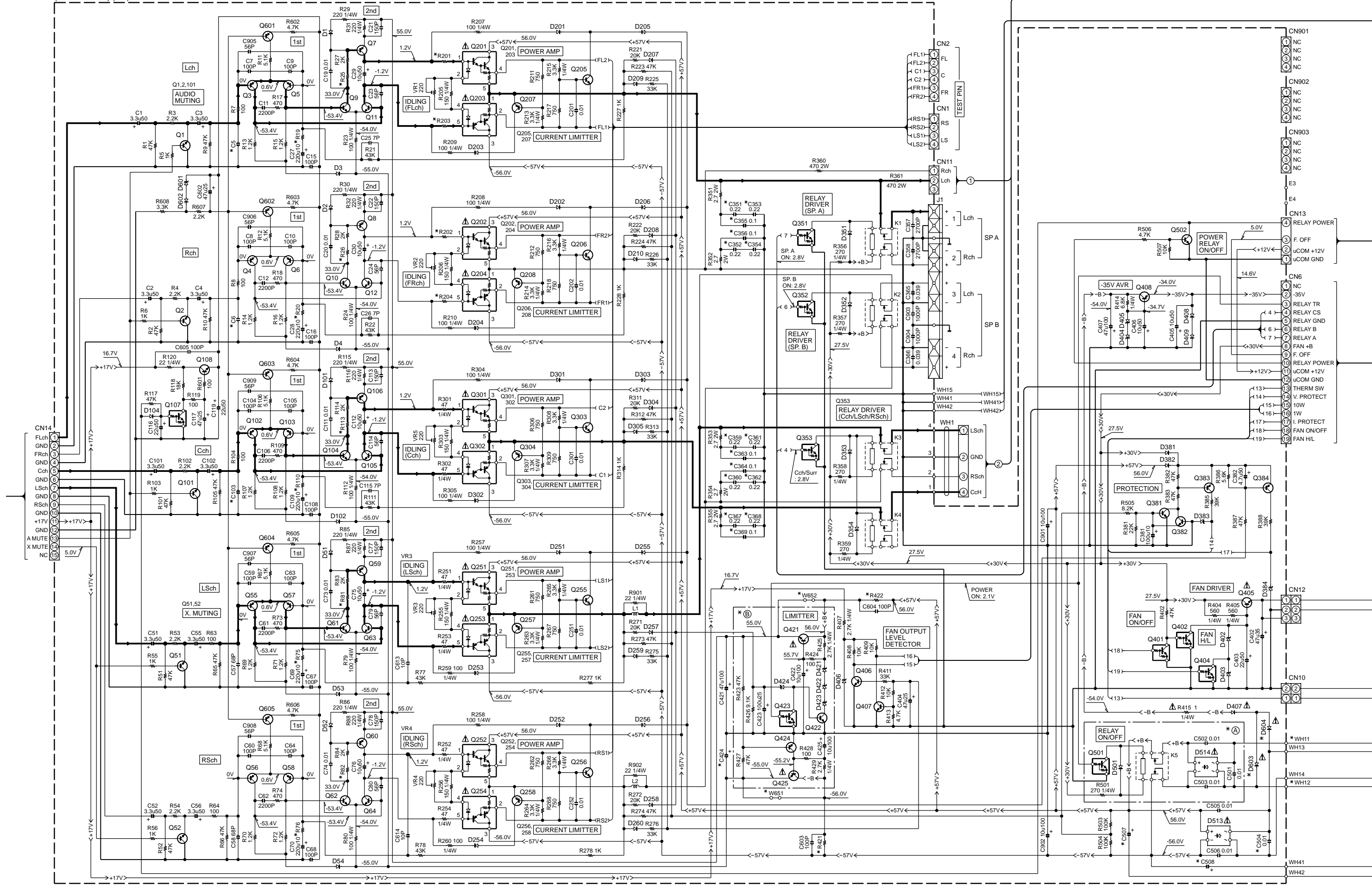
KRF-V7773D-B (X25-6322-71)									
DESTINATION	COUNTRY	ABB.	UNIT No.	(A)	(B)	(C)	R241-245		
PX		Y	72-91						
GENERAL MARKET		M	22-71						
AUSTRALIA		X							
EUROPE		E							
SHANGHAI		V	62-10						

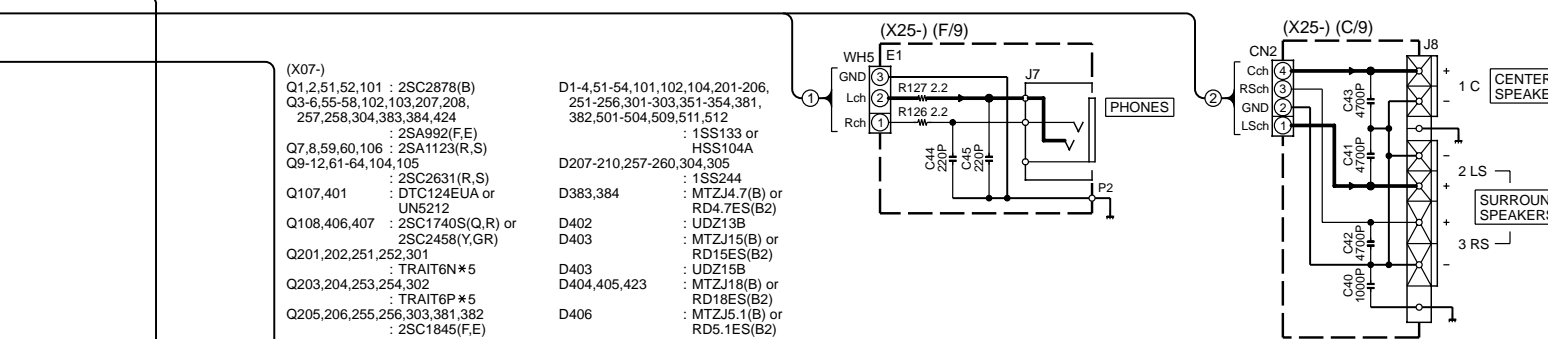
(X11-38XX-XX) (C/4)







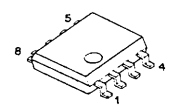




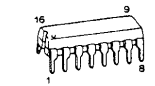
**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

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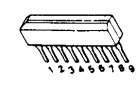
NJM4565M  
NJM4565MD  
NJM4580ED  
TC4W53FU



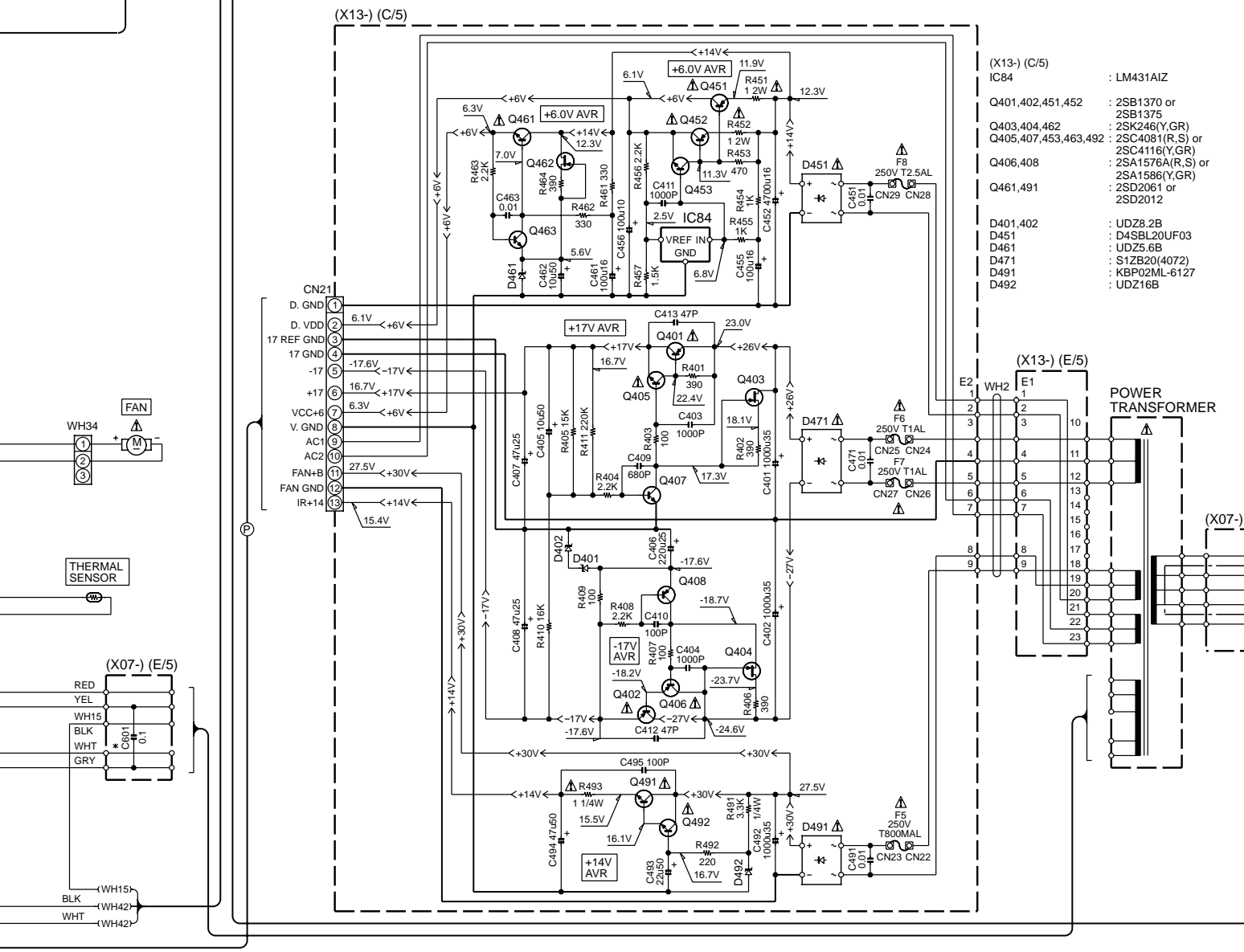
TC9184AP



TA8409S

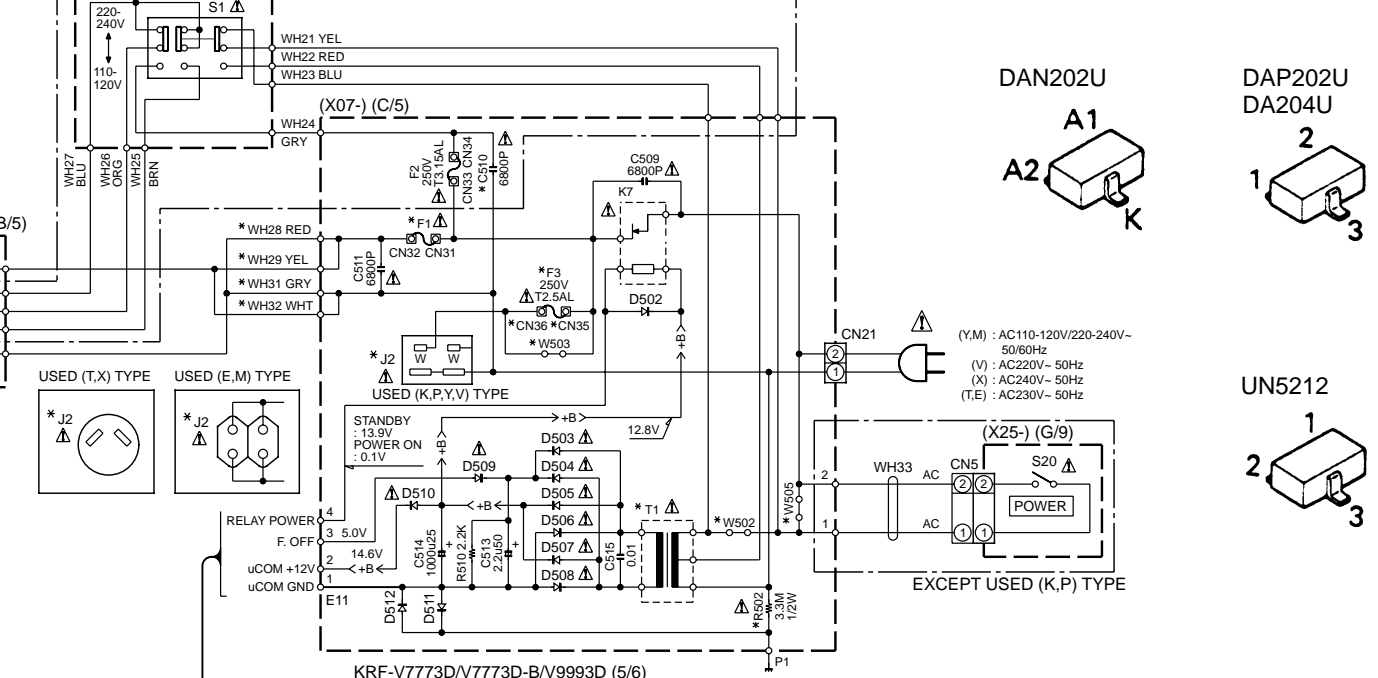


KRF-V9993D (X07-315X-XX)																																		
DESTINATION		UNIT No.	(A)	(B)	C5,6,103	C351-354,359-362,367,368	C355,356,363,364,369	C424	C504	C507,508	C510	C601	R19,20,75,76,110	R25,26,81,82,113	R201-204	R421,422	R502	D603	D604	F1	F3	WH11,12	WH28,32	WH29,31	W502	W503	W505	W651,652	J2	CN35,36	T1			
COUNTRY	ABB.																																	
GENERAL MARKET	M	0-21	YES	NO	270P	YES	NO	100u100	NO	12000u73	YES	YES	1.6K	5.6K	18 1/4W	56 1/4W	NO	YES	NO	250V T3.15AL	NO	YES	NO	YES	NO	YES	NO	YES	E30-0149-05	NO	L07-2834-05			
AUSTRALIA	X	0-71								12000u63	NO		2K	5.1K																		E30-0325-05	E30-0310-05	E30-0149-05
EUROPE	E	2-71								NO	2K		5.1K	YES																		NO	E30-0149-05	
KRF-V7773D (X07-3XXX-XX)																																		
DESTINATION		UNIT No.	(A)	(B)	C5,6,103	C351-354,359-362,367,368	C355,356,363,364,369	C424	C504	C507,508	C510	C601	R19,20,75,76,110	R25,26,81,82,113	R201-204	R421,422	R502	D603	D604	F1	F3	WH11,12	WH28,32	WH29,31	W502	W503	W505	W651,652	J2	CN35,36	T1			
COUNTRY	ABB.																																	
PX	Y	152-91	YES	YES	270P	YES	NO	47u100	NO	8200u73	YES	YES	1.6K	5.6K	18 1/4W	1 1/4W	NO	YES	NO	250V T3.15AL	NO	YES	NO	YES	NO	YES	NO	NO	E30-0148-05	NO	L07-2834-05			
GENERAL MARKET	M	150-22								12000u73	NO		2K	5.1K																		E30-0149-05	E30-0325-05	E30-0149-05
AUSTRALIA	X	150-72								8200u73	NO		2K	5.1K																		YES	NO	E30-0325-05
EUROPE	E	152-71	NO	NO	100u100	NO	12000u63	NO	NO	2K	5.1K	YES	1.6K	5.6K	56 1/4W	1 1/4W	NO	YES	NO	250V T3.15AL	YES	NO	YES	NO	YES	NO	YES	YES	YES	E30-0149-05	NO	L07-2833-05		
CHANGHAI	V	202-10	YES	YES	47u100																												8200u73	NO
KRF-V7773D-B (X07-315X-XX)																																		
DESTINATION		UNIT No.	(A)	(B)	C5,6,103	C351-354,359-362,367,368,601	C355,356,363,364,369,504,510	C424	C507,508	R19,20,75,76,110	R25,26,81,82,113	R201-204	R421,422	R502	D603	D604	F1	F3	WH11,12,28,32	WH29,31	W502,651,652	W503	W505	J2	CN35,36	T1								
COUNTRY	ABB.																																	
EUROPE	E	2-71	YES	NO	270P	YES	NO	100u100	12000u63	2K	5.1K	18 1/4W	56 1/4W	NO	YES	NO	250V T3.15AL	YES	YES	NO	YES	NO	YES	NO	YES	NO	YES	E30-0149-05	NO	L07-2833-05				
U.K.	T	0-51																													E30-0310-05	YES		



- 2SA1123  
2SA992  
2SC1845  
2SC2003  
2SC2631
- 2SC2878  
2SC3940A
- 2SA1110
- 2SC1740S  
2SC2458
- DTC143TUA  
UN5116  
UN5119  
UN5216  
UN5219  
2SA1576A
- 2SA1586  
2SC4116
- 2SA1535A  
2SB1370  
2SC3944A
- 2SD2061

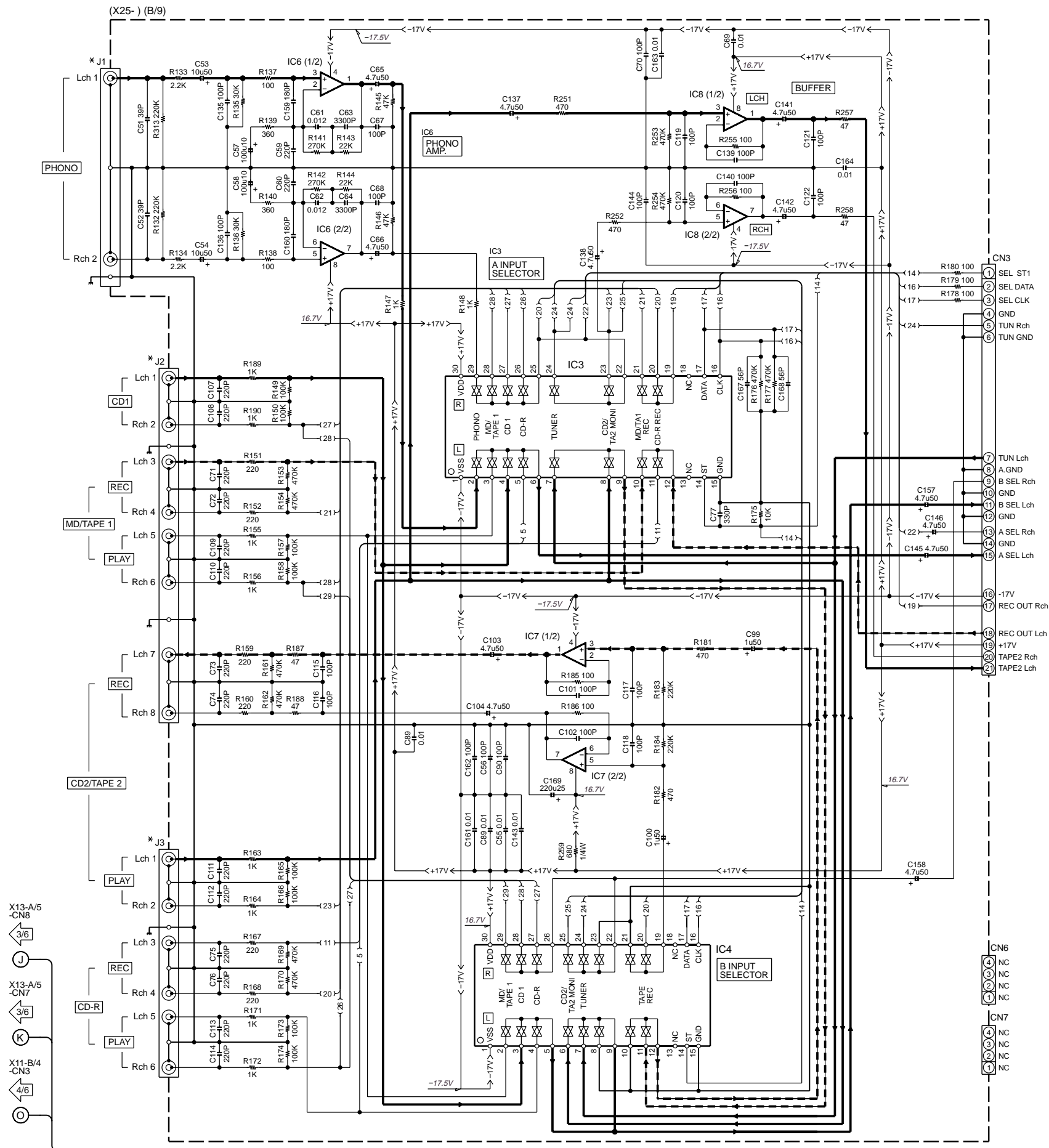
- AN5560
- UN4219
- 2SB1375  
2SD2012
- 2SC4081  
2SD1757K
- DTA124EUA  
DTA143TUA  
DTC124EUA



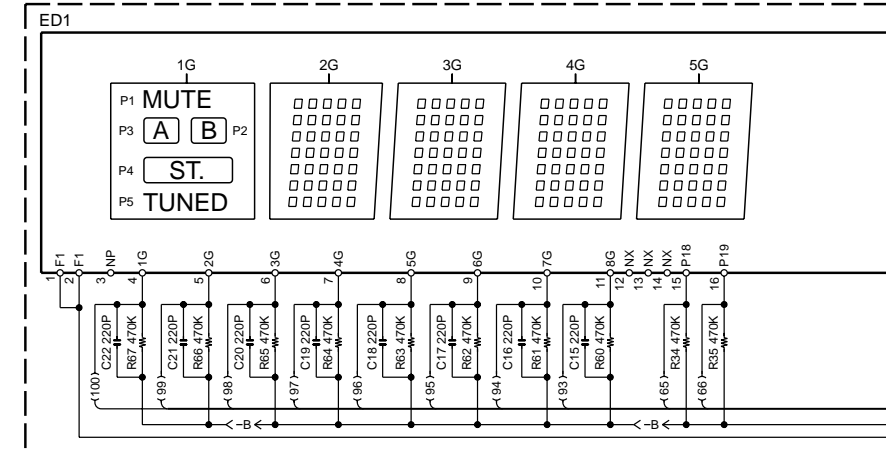
- DAN202U  
A1  
A2
- DAP202U  
DA204U  
1  
2  
3

- UN5212  
1  
2  
3

KRF-V7773D/N7773D-B/V9993D



(X25-63XX-XX) (A/9)



KRF-V7773D (X25-63XX-XX)

DESTINATION	COUNTRY	ABB.	UNIT No.	R6,82-85, 91,92	R107-110,116, 117,125,128	R118	C28	C29, 30	D11	D15-18, 24,25	D29	IC2
GENERAL MARKET	PX	M	22-71	270	NO	YES	YES	NO	B30-2548 (GREEN)	B30-2573(RED)	NO	NO
GENERAL MARKET	EUROPE	E	52-10									
GENERAL MARKET	SHANGHAI	V										

DESTINATION	COUNTRY	ABB.	CN1	A1	S18	W159,188, 189,215	W107-109	J1	J2	J3
GENERAL MARKET	PX	Y								
GENERAL MARKET	EUROPE	E	NO	YES	NO	NO	YES	E63-1108 (SILVER)	E63-1112 (SILVER)	E63-1164 (SILVER)
GENERAL MARKET	SHANGHAI	V								

KRF-V7773D-B (X25-6322-71)

DESTINATION	COUNTRY	ABB.	UNIT No.	R6,82-85, 91,92	R107-110,116, 117,125,128	R118	C28	C29, 30	D11	D15-18, 24,25	D29	IC2
GENERAL MARKET	PX	M	2-71	270	NO	YES	YES	NO	B30-2548 (GREEN)	B30-2573(RED)	NO	NO
GENERAL MARKET	EUROPE	E										
GENERAL MARKET	U.K.	T										

DESTINATION	COUNTRY	ABB.	CN1	A1	S18	W159,188, 189,215	W107-109	J1	J2	J3
GENERAL MARKET	PX	Y								
GENERAL MARKET	EUROPE	E	NO	YES	NO	NO	YES	E63-1108 (SILVER)	E63-1112 (SILVER)	E63-1164 (SILVER)
GENERAL MARKET	U.K.	T								

KRF-V9993D (X25-6320-01)

DESTINATION	COUNTRY	ABB.	UNIT No.	R6,82-85, 91,92	R107-110,116, 117,118,125,128	C28, 29,30	D11,15-18, 24,25	D29	IC2
GENERAL MARKET	PX	M	0-01	220	YES	YES	B30-2571 (BLUE)	YES	YES
GENERAL MARKET	EUROPE	E							
GENERAL MARKET	U.K.	T							

DESTINATION	COUNTRY	ABB.	CN1	A1	S18	W107-109,159, 188,189,215	J1	J2	J3
GENERAL MARKET	PX	Y							
GENERAL MARKET	EUROPE	E	YES	YES	YES	YES	E63-1109 (GOLD)	E63-1113 (GOLD)	E63-1111 (GOLD)
GENERAL MARKET	U.K.	T							

IC1	: UPD780204-038	DIGITAL LINE
IC2	: TA8409S	SIGNAL LINE
IC3	: NJU7313AM	GND LINE
IC4	: NJU7312AM	
IC6	: NJM4580ED	
IC7,8	: NJM4565MD	

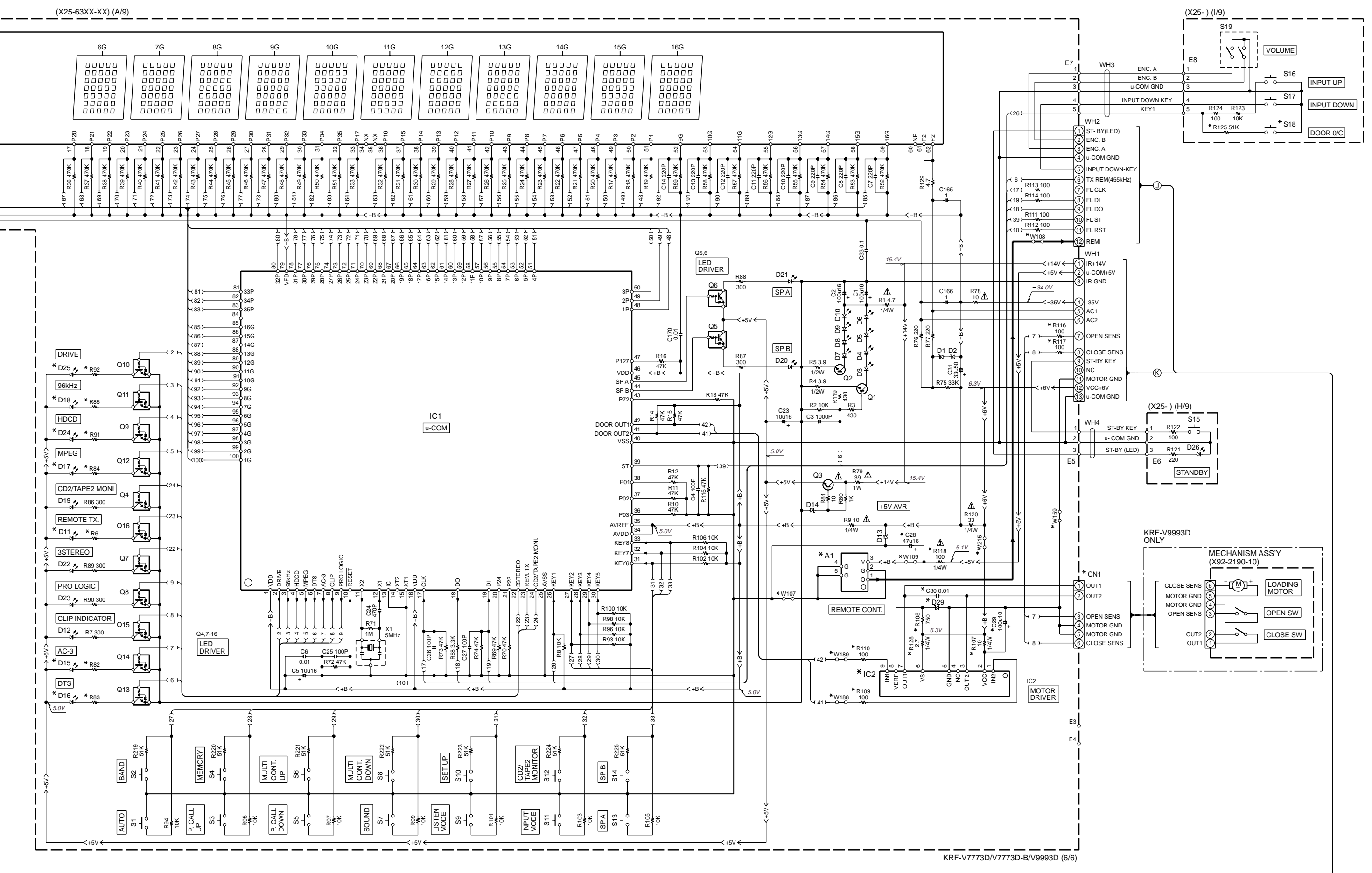
Q1-3	: 2SC3940A(R,S)
Q4,7-16	: DTC124EUA or UN6212
Q5,6	: DTA124EUA or UN5112

D1,2,29	: MTZJ3.3(B) or RD3.3ES(B2)
D3-10	: B30-2532-05
D11	: *
D12,19-23	: B30-2430-05
D13	: MTZJ5.1(B) or RD5.1ES(B2)
D14	: MTZJ5.6(B) or RD5.6ES(B2)
D15-18,24,25	: *
D26	: B30-2573-05

ED1	: 16-MT-62GK
-----	--------------

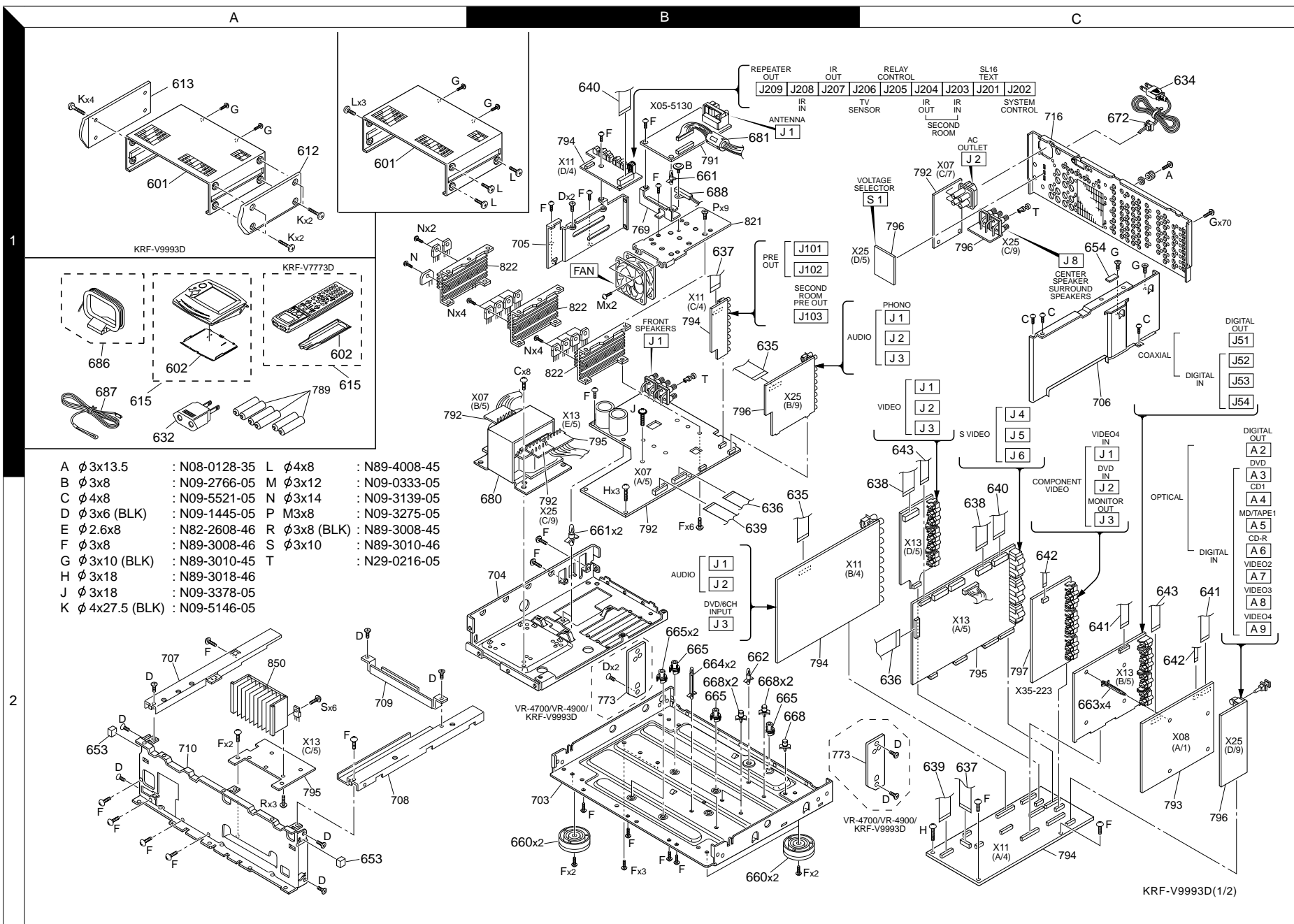
**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  $\Delta$  indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

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KRF-V7773D/V7773D-B/V9993D (6/6)

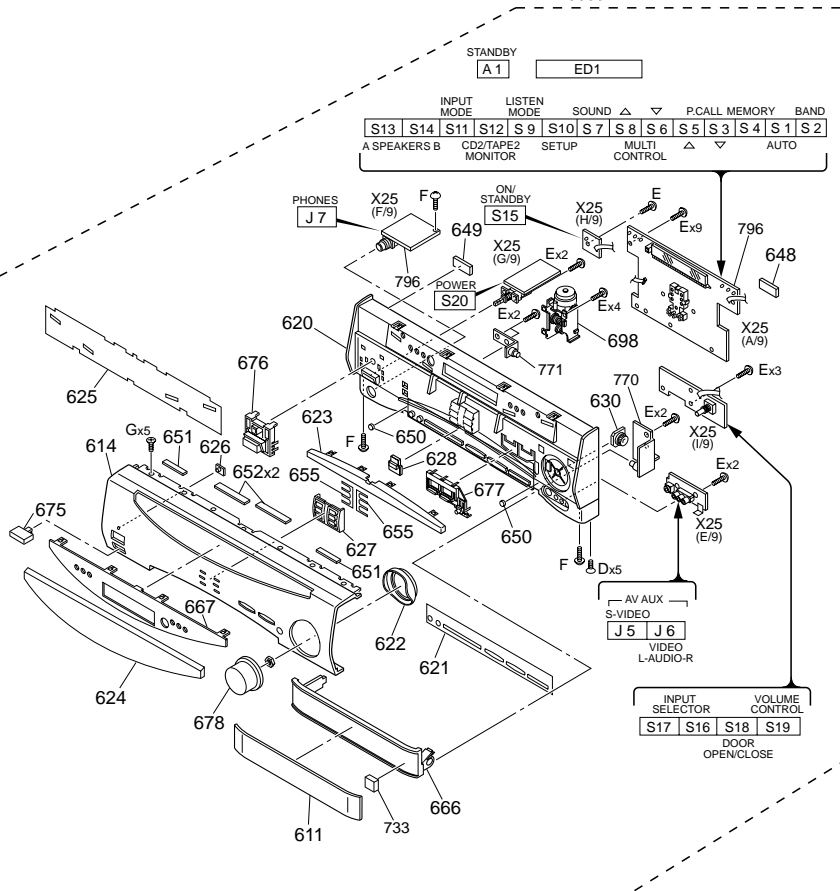




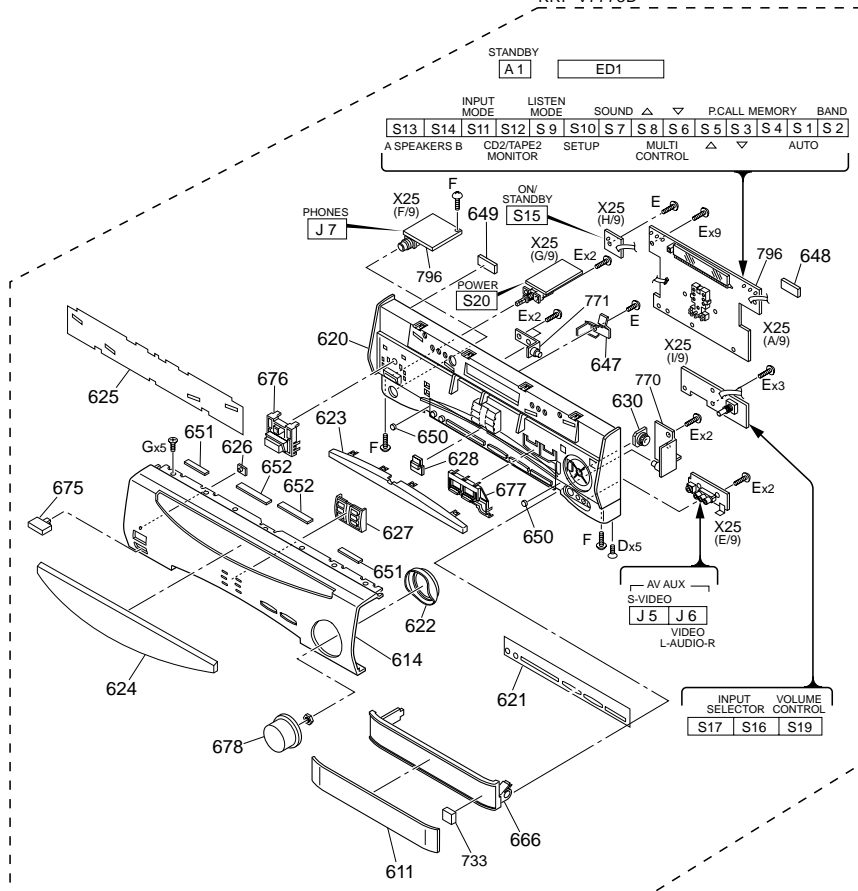
## EXPLODED VIEW (UNIT)

D  $\phi$  3x6 (BLK) : N09-1445-05  
 E  $\phi$  2.6x8 : N82-2608-46  
 F  $\phi$  3x8 : N89-3008-46

KRF-V9993D



KRF-V7773D



VR-4900/KRF-V9993D, VR-4080-B/VR-4090-B/KRF-V7773D (2/2)

\* New Parts  
Parts without **Parts No.** are not supplied.  
Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.  
Teile ohne **Parts No.** werden nicht geliefert.

①

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
<b>KRF-V7773D/V7773D-B (E2,T)</b>						
601	1A	*	A01-3746-11	METALLIC CABINET	YMXVE1	
601	1A	*	A01-3748-11	METALLIC CABINET	E2T	
602	2F	*	A09-1166-08	BATTERY COVER	YMXV	
611	2F	*	A29-1084-13	PANEL	E1	
611	2F	*	A29-1091-13	PANEL		
611	2F	*	A29-1092-13	PANEL	E2T	
614	2F	*	A60-1774-02	PANEL	YMXE1	
614	2F	*	A60-1775-02	PANEL	V	
614	2F	*	A60-1784-02	PANEL	E2T	
615	1A	*	A70-1313-05	REMOTE CONTROLLER (RC-R0912)	YMXV	
615	1A	*	A70-1344-05	REMOTE CONTROLLER (RC-R0910)	E1E2T	
620	1F	*	B01-0540-11	PANEL ESCUTCHEON	YMXVE1	
620	1F	*	B01-0541-11	PANEL ESCUTCHEON	E2T	
621	2F	*	B03-3859-03	DRESSING PLATE	YMXVE1	
621	2F	*	B03-3860-03	DRESSING PLATE	E2T	
622	2F	*	B07-2495-04	ESCUTCHEON	YMXVE1	
622	2F	*	B07-2496-04	ESCUTCHEON	E2T	
623	1F	*	B10-3569-02	FRONT GLASS		
624	2E	*	B10-3570-03	FRONT GLASS		
625	1E	*	B11-1501-03	COLOR FILTER		
626	1E	*	B12-0390-04	INDICATOR		
627	2F	*	B12-0391-14	INDICATOR		
628	1F	*	B12-0392-04	INDICATOR		
-	-	-	B46-0096-53	WARRANTY CARD	X	
-	-	-	B46-0310-03	WARRANTY CARD	E1E2T	
-	-	-	B46-0330-03	WARRANTY CARD	Y	
-	-	-	B46-0344-03	WARRANTY CARD	V	
-	-	-	B46-0350-00	QUESTIONNAIRE CARD	T	
-	-	-	B58-0513-04	CAUTION CARD (PRESET220-240)	Y	
-	-	-	B58-0945-03	CAUTION CARD	T	
-	-	-	B58-0964-13	CAUTION CARD (UL)	Y	
-	-	-	B58-0965-13	CAUTION CARD (PL)	XT	
-	-	-	B58-0966-13	CAUTION CARD (PL)	ME1E2	
-	-	-	B58-1546-03	CAUTION CARD	V	
-	-	-	B59-1104-00	SERVICE DIRECTORY	Y	
-	-	*	B60-4487-00	INSTRUCTION MANUAL(EN)	YMXT	
-	-	*	B60-4488-00	INSTRUCTION MANUAL(FR)	E1E2	
-	-	*	B60-4489-00	INSTRUCTION MANUAL(GE)	E1E2	
-	-	*	B60-4490-00	INSTRUCTION MANUAL (NE)	E1E2	
-	-	*	B60-4491-00	INSTRUCTION MANUAL (IT)	E1E2	
-	-	*	B60-4492-00	INSTRUCTION MANUAL (ES)	ME1E2	
-	-	*	B60-4493-00	INSTRUCTION MANUAL (TC)	M	
-	-	*	B60-4496-00	INSTRUCTION MANUAL (SC)	V	
-	-	*	B60-4645-00	INSTRUCTION MANUAL (EN)	YMXT	
-	-	*	B60-4646-00	INSTRUCTION MANUAL (FR)	E1E2	
-	-	*	B60-4647-00	INSTRUCTION MANUAL (GE)	E1E2	
-	-	*	B60-4648-00	INSTRUCTION MANUAL (NE)	E1E2	
-	-	*	B60-4649-00	INSTRUCTION MANUAL (IT)	E1E2	
-	-	*	B60-4650-00	INSTRUCTION MANUAL (ES)	ME1E2	
-	-	*	B60-4651-00	INSTRUCTION MANUAL (TC)	M	
-	-	*	B60-4654-00	INSTRUCTION MANUAL (SC)	V	
630	1F	*	D39-0347-05	DAMPER		

L : Scandinavia K : USA P : Canada R : Mexico C : China I : Malaysia  
Y : PX(Far East,Hawaii) T : England E : Europe G : Germany V : China(Shanghai)  
Y : AAFES(Europe) X : Australia Q : Russia H : Korea M : Other Areas ⚠ indicates safety critical components .

\* New Parts  
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Teile ohne **Parts No.** werden nicht geliefert.

②

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
△ 632	1A		E03-0115-05	AC PLUG ADAPTER	M	
△ 634	1C		E30-2789-05	AC POWER CORD	Y	
△ 634	1C		E30-2790-05	AC POWER CORD	X	
△ 634	1C		E30-2791-05	AC POWER CORD	T	
△ 634	1C		E30-2824-05	AC POWER CORD	V	
△ 634	1C		E30-2842-05	AC POWER CORD	ME1E2	
635	1B,2B	*	E35-2481-05	FLAT CABLE 21P,80MM		
636	2B,2C	*	E35-2482-05	FLAT CABLE 19P,220MM		
637	1B,2C	*	E35-2483-05	FLAT CABLE 15P,340MM		
638	2C	*	E35-2485-05	FLAT CABLE 17P,80MM		
639	2B,2C	*	E35-2486-05	FLAT CABLE 15P,80MM		
640	1B,2C	*	E35-2511-15	FLAT CABLE 17P,190MM		
641	2C	*	E35-2512-05	FLAT CABLE 29P,P=1.0		
643	1C,2C	*	E35-2514-05	FLAT CABLE 21P,P=1.0		
647	1F	*	G02-1701-04	FLAT SPRING DOOR		
648	1F	*	G10-0541-04	NON-WOVEN FABRIC		
649	1F	*	G10-0542-04	NON-WOVEN FABRIC		
650	1F,2F	*	G11-2719-04	CUSHION DOOR		
651	1E,2F	*	G11-2730-04	SOFT TAPE PANEL		
652	1F	*	G11-2731-04	SOFT TAPE		
653	1A	*	G11-2743-14	CUSHION		
654	1C	*	G11-2741-04	CUSHION FRAME		
-	-	*	H10-7636-12	POLYSTYRENE FOAMED FIXTURE		
-	-	*	H10-7637-12	POLYSTYRENE FOAMED FIXTURE		
-	-	*	H13-0050-04	CARTON BOARD	E1E2	
-	-	*	H13-0330-14	CARTON BOARD		
-	-	*	H25-0232-04	PROTECTION BAG (235X350X0.03)	E1E2	
-	-	*	H25-0232-04	PROTECTION BAG (235X350X0.03)	YMXV	
-	-	*	H25-0651-04	PROTECTION BAG	T	
-	-	*	H25-0692-04	PROTECTION BAG		
-	-	*	H50-3572-04	ITEM CARTON CASE	M	
-	-	*	H50-3573-04	ITEM CARTON CASE	V	
-	-	*	H50-3574-04	ITEM CARTON CASE	YX	
-	-	*	H50-3580-04	ITEM CARTON CASE	E2T	
-	-	*	H50-3755-04	ITEM CARTON CASE	E1	
660	2B	*	J02-1467-03	FOOT (D=60,H=21.5)		
661	1B,2B	*	J19-5910-05	UNIT HOLDER		
662	2B	*	J19-5911-05	UNIT HOLDER		
663	2C	*	J19-5915-05	UNIT HOLDER		
664	2B	*	J19-5919-05	UNIT HOLDER		
665	2B	*	J19-6002-04	UNIT HOLDER		
666	2F	*	J19-6053-12	HOLDER	YMXVE1	
666	2F	*	J19-6068-12	HOLDER	E2T	
668	2B	*	J19-6069-05	UNIT HOLDER		
△ 672	1C	*	J42-0083-05	POWER CORD BUSHING		
-	-	*	J61-0307-05	WIRE BAND		
675	1F	*	K27-2388-04	KNOB (BUTTON)	YMXVE1	
675	1F	*	K27-2398-04	KNOB (BUTTON)	E2T	
676	1F	*	K29-7727-04	KNOB	YMXVE1	
676	1F	*	K29-7729-04	KNOB	E2T	
677	1F	*	K29-7739-03	KNOB	YMXVE1	
677	1F	*	K29-7740-03	KNOB	E2T	
678	2E	*	K29-7742-04	KNOB	YMXVE1	
678	2E	*	K29-7743-04	KNOB	E2T	

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PARTS LIST

KRF-V7773D/V7773D-B/V9993D

\* New Parts  
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3

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
680	2B	*	L07-2822-05	POWER TRANSFORMER	YM	
680	2B	*	L07-2826-05	POWER TRANSFORMER	E1E2T	
680	2B	*	L07-2851-05	POWER TRANSFORMER	V	
680	2B	*	L07-2852-05	POWER TRANSFORMER	X	
681	1B	*	L92-0070-05	FERRITE CORE		
686	1A	*	T90-0852-05	LOOP ANTENNA		
687	1A	*	T90-0855-05	LEAD WIRE ANTENNA		
688	1B	*	DP40203SG104H	THERMISTOR		
KRF-V9993D						
601	1A	*	A01-3747-11	METALLIC CABINET		
602	1A	*	A09-1177-08	BATTERY COVER		
611	2D	*	A29-1084-13	PANEL	MX	
611	2D	*	A29-1091-13	PANEL	TE	
612	1A	*	A50-1344-02	SIDE PLATE		
613	1A	*	A50-1345-02	SIDE PLATE		
614	1D	*	A60-1780-02	PANEL		
615	1A	*	A70-1350-05	REMOTE CONTROLLER (RC-R1011)	MX	
615	1A	*	A70-1351-05	REMOTE CONTROLLER (RC-R1010)	TE	
620	1D	*	B01-0540-11	PANEL ESCUTCHEON		
621	2D	*	B03-3859-03	DRESSING PLATE		
622	2D	*	B07-2495-04	ESCUTCHEON		
623	1D	*	B10-3570-03	FRONT GLASS IR		
624	1D	*	B10-3571-02	FRONT GLASS FL		
625	1D	*	B11-1505-03	COLOR FILTER		
626	1D	*	B12-0390-04	INDICATOR		
627	2D	*	B12-0391-14	INDICATOR		
628	1D	*	B12-0392-04	INDICATOR		
-		*	B46-0096-53	WARRANTY CARD	X	
-		*	B46-0310-03	WARRANTY CARD	TE	
-		*	B46-0350-00	QUESTIONAIRE CARD	T	
-		*	B58-0945-03	CAUTION CARD	T	
-		*	B58-0965-13	CAUTION CARD (PL)	XT	
-		*	B58-0966-13	CAUTION CARD (PL)	ME	
-		*	B60-4502-00	INSTRUCTION MANUAL(EN)	MXT	
-		*	B60-4503-00	INSTRUCTION MANUAL(FR)	E	
-		*	B60-4504-00	INSTRUCTION MANUAL(GE)	E	
-		*	B60-4505-00	INSTRUCTION MANUAL(NE)	E	
-		*	B60-4506-00	INSTRUCTION MANUAL(IT)	E	
-		*	B60-4507-00	INSTRUCTION MANUAL(ES)	E	
-		*	B60-4508-00	INSTRUCTION MANUAL(TC)	M	
-		*	B60-4660-00	INSTRUCTION MANUAL(EN)	MXT	
-		*	B60-4661-00	INSTRUCTION MANUAL(FR)	E	
-		*	B60-4662-00	INSTRUCTION MANUAL(GE)	E	
-		*	B60-4663-00	INSTRUCTION MANUAL(NE)	E	
-		*	B60-4664-00	INSTRUCTION MANUAL(IT)	E	
-		*	B60-4665-00	INSTRUCTION MANUAL(ES)	E	
-		*	B60-4666-00	INSTRUCTION MANUAL(TC)	M	
630	1E	*	D39-0334-15	DAMPER		
632	1A	*	E03-0343-05	AC PLUG ADAPTER	M	
634	1C	*	E30-2790-05	AC POWER CORD	X	
634	1C	*	E30-2791-05	AC POWER CORD	T	
634	1C	*	E30-2943-05	AC POWER CORD	ME	
635	1B,2B	*	E35-2481-05	FLAT CABLE 21P,80MM		

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4

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
636	2B,2C	*	E35-2482-05	FLAT CABLE 19P,220MM		
637	1B,2C	*	E35-2483-05	FLAT CABLE 15P,340MM		
638	2C	*	E35-2485-05	FLAT CABLE 17P,80MM		
639	2B,2C	*	E35-2486-05	FLAT CABLE 15P,80MM		
640	1B,2C	*	E35-2511-15	FLAT CABLE 17P,190MM		
641	2C	*	E35-2512-05	FLAT CABLE 29P,P=1.0		
642	2C	*	E35-2513-05	FLAT CABLE 7P,P=1.0		
643	1C,2C	*	E35-2514-05	FLAT CABLE 21P,P=1.0		
648	1E	*	G10-0541-04	NON-WOVEN FABRIC		
649	1D	*	G10-0542-04	NON-WOVEN FABRIC		
650	1D,2D	*	G11-2719-04	CUSHION DOOR		
651	1D,2D	*	G11-2730-04	SOFT TAPE PANEL		
652	1D	*	G11-2731-04	SOFT TAPE		
653	2A	*	G11-2743-14	CUSHION SUB PANEL		
654	1C	*	G11-2761-04	CUSHION		
655	1D,2D	*	G11-2762-04	CUSHION		
-		*	H10-7638-12	POLYSTYRENE FOAMED FIXTURE		
-		*	H10-7639-12	POLYSTYRENE FOAMED FIXTURE		
-		*	H10-7664-12	POLYSTYRENE FOAMED FIXTURE		
-		*	H11-0099-04	POLYSTYRENE FOAMED BOARD		
-		*	H12-3440-04	PACKING FIXTURE		
-		*	H13-0050-04	CARTON BOARD	E	
-		*	H25-0232-04	PROTECTION BAG (235X350X0.03)	MXE	
-		*	H25-0651-04	PROTECTION BAG	T	
-		*	H25-1671-04	PROTECTION BAG		
-		*	H50-3578-14	ITEM CARTON CASE	M	
-		*	H50-3579-14	ITEM CARTON CASE	XTE	
660	2B	*	J02-1467-03	FOOT (D=60,H=21.5)		
661	1B,2B	*	J19-5910-05	UNIT HOLDER H=8.4		
662	2B	*	J19-5911-05	UNIT HOLDER H=11.6		
663	2C	*	J19-5915-05	UNIT HOLDER H=24.2		
664	2B	*	J19-5919-05	UNIT HOLDER H=36.8		
665	2B	*	J19-6002-04	UNIT HOLDER		
666	2D	*	J19-6053-12	HOLDER		
667	2D	*	J19-6054-02	HOLDER		
668	2B	*	J19-6069-05	UNIT HOLDER		
 672	1C	*	J42-0083-05	POWER CORD BUSHING	XT	
 672	1C	*	J42-0157-05	POWER CORD BUSHING	ME	
-		*	J61-0307-05	WIRE BAND		
675	2D	*	K27-2388-04	KNOB (BUTTON)		
676	1D	*	K29-7727-04	KNOB		
677	1D	*	K29-7728-03	KNOB		
678	2D	*	K29-7742-04	KNOB		
 680	2B	*	L07-2825-05	POWER TRANSFORMER	M	
 680	2B	*	L07-2826-05	POWER TRANSFORMER	TE	
 680	2B	*	L07-2854-05	POWER TRANSFORMER	X	
681	2B	*	L92-0070-05	FERRITE CORE		
686	1A	*	T90-0852-05	LOOP ANTENNA		
687	1A	*	T90-0855-05	LEAD WIRE ANTENNA		
688	1B	*	DP40203SG104H	THERMISTOR		
698	1E	*	X92-2190-10	MECHANISM ASSY		

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KRF-V7773D/V7773D-B/V9993D

PARTS LIST



# KRF-V7773D/V7773D-B/V9993D

## PARTS LIST

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5

Ref. No	New Parts	Parts No.	Destination	Remarks
<b>TUNER (X05-5130-71/ 5142-10)</b>				
C1		CK73FB1H332K	ET YMXV	
C2 ,3		CK73FB1H103K		
C3		CK73FB1H103K		
C5 ,6		CK73FB1H103K		
C7		CE04KW1C470M		
C10		CE04KW1C470M		
C11 ,12		CK73FB1H473K		
C14		CE04KW1H100M		
C15		CE04KW1H010M		
C16		CE04RW1HR47M		
C17		CE04KW1H010M		
C18		CC73FCH1H470J		
C19		CE04RW1A100M		
C20		CK73FB1H473K		
C21		CE04RW1V3R3M		
C22		CK73FB1H473K	ET YMXV ET	
C23		CE04KW1H100M		
C24		CC73FCH1H331J		
C24 ,25		CC73FCH1H331J		
C25		CC73FCH1H181J		
C26		CK73FB1H183K		
C27		CE04HW1E4R7M		
C28 ,29		CE04KW1H2R2M		
C30 ,31		CK73FB1H223K		
C32		CE04KW1H4R7M		
C33 ,34		CK73FB1H103K	YMV	
C36		CK73FB1H103K		
C37 ,38		CE04KW1H100M		
C41		CC73FCH1H470J		
C42		CC73FCH1H270J		
C43		CC73FCH1H220J		
C44		CC73FCH1H471J		
C45		CC73FCH1H220J		
C46		CE04KW1H100M		
C47		CK73FB1H102K		
C48		CE04KW1C470M		
C49		CE04KW1H2R2M		
C50		CC73FCH1H101J		
C51		CC73FCH1H471J		
C52		CC73FCH1H101J		
C70 ,71		CK73FB1H822K	ET	
C72		CE04KW1H010M		
C73		CE04KW1C470M		
C74		CK73FB1H102K		
C75		CC73FCH1H030C		
C76		CC73FCH1H470J	YMXV	
C77		CC73FCH1H101J		
C78		CK73FB1H223K		
C79 ,80		CK73FB1H122K		
C79 ,80		CK73FB1H152K		
C79 ,80		CK73FB1H472K	ET	
C81		CK73FF1C105Z		
C82		CK73FB1H103K		
C84 ,85		CK73FB1H332K		
C88		CK73FB1H332K		
C91		CK73FF1C105Z	YMXV	
C92 ,93		CK73FB1H102K		
C94		CK73FB1H561K		
CN1		E40-3259-05		
CN2		E40-4871-05		
J1		E70-0080-05		
CF1 ,2		L72-0531-05		
CF1 ,2		L72-0536-05		
L1		L39-1384-05	ET	
L2		L40-1091-82		
L3		L30-0911-05		
L4		L30-0950-05		
L5		L30-0951-05		
L6 ,7		L79-1239-05	ET	
X1		L77-2187-05		
R1		RK73FB2A101J		
R4		RK73FB2A681J		
R5		RK73FB2A332J		
R6		RK73FB2A221J		
R7		RK73FB2A821J		

Ref. No	New Parts	Parts No.	Destination	Remarks
R8		RK73FB2A100J	ET YMXV	
R8		RK73FB2A330J		
R9		RK73FB2A391J		
R10		RK73FB2A102J		
R11		RK73FB2A220J		
R11		RK73FB2A330J	YMXV	
R12		RK73FB2A101J		
R14		RK73FB2A101J		
R15		RK73FB2A333J		
R16		RK73FB2A220J		
R17		RK73FB2A362J		
R18		RK73FB2A302J		
R19		RK73FB2A822J		
R20		RK73FB2A392J		
R23		RK73FB2A153J		
R23		RK73FB2A472J	YMXV	
R23		RK73FB2A682J		
R25		RK73FB2A183J		
R25		RK73FB2A273J		
R27 ,28		RK73FB2A432J		
R27 ,28		RK73FB2A682J	YMXV	
R29		RK73FB2A102J		
R30		RK73FB2A561J		
R31		RK73FB2A473J		
R33 ,34		RK73FB2A102J		
R35		RK73FB2A101J	ET	
R36		RK73FB2A102J		
R37		RK73FB2A392J		
R38		RK73FB2A102J		
R39		RK73FB2A103J		
R42		RK73FB2A103J		
R43		RK73FB2A221J		
R44		RD14NB2E271J		
R45		RK73EB2B332J		
R46		RK73FB2A332J		
R47		RK73EB2B332J		
R48		RK73FB2A102J		
R49		RK73FB2A103J		
R50		RD14NB2E471J		
R51		RK73FB2A562J		
R52		RK73FB2A101J		
R53		RK73FB2A222J		
R54		RK73FB2A102J		
R55		RK73FB2A333J		
R56 ,57		RK73FB2A102J		
R58		RK73FB2A123J	YMXV	
R59		RK73FB2A122J		
R72 ,73		RK73FB2A333J		
R72 ,73		RK73FB2A392J		
R74		RK73FB2A473J		
R75		RK73FB2A822J		
R76		RK73FB2A182J		
R78		RK73FB2A821J		
R79		RK73FB2A332J		
R80		RK73FB2A223J		
R81		RS14KB3A151J		
R82		RK73FB2A272J		
R83		RK73FB2A102J		
R84		RK73EB2B332J		
R85 -87		RK73FB2A333J		
R88		RK73FB2A563J		
R89		RK73FB2A333J		
R90		RK73FB2A681J		
VR1		R32-0037-05		
W51 ,52		R92-0670-05		
W54 -56		R92-0670-05	YMXV	
W54 ,55		R92-0670-05		
W54 ,55		R92-0670-05		
W59 ,60		R92-0670-05		
W62		R92-0670-05		
W80		R92-0679-05	YMXV	
W82 -85		R92-0679-05		
W84 ,85		R92-0679-05		
S1		S62-0034-05		
D1		DA204U		

Ref. No	New Parts	Parts No.	Destination	Remarks
D1		MA143A		
D1		1SS302		
D3		MTZJ8.2(B)		
D3		RD8.2ES(B2)		
D4		MTZJ5.1(B)		
D4		RD5.1ES(B2)	ET	
D5		MTZJ2.7(B)		
D5		RD2.7ES(B2)		
D8		MA111		
D9		MTZJ3.3(B)		
D9		RD3.3ES(B2)		
D11		MA111		
D13		MA111		
IC1		LA1837		
IC2		LC72131		
Q1		2SC4081(R,S)	YMXV	
Q1		2SC4116(Y,GR)		
Q2		2SA1576A(R,S)		
Q2		2SA1586(Y,GR)		
Q3 ,4		2SC4081(R,S)		
Q3 ,4		2SC4116(Y,GR)	YMXV	
Q6 ,7		2SC4081(R,S)		
Q6 ,7		2SC4116(Y,GR)		
Q10 ,11		2SD1757K		
Q12		2SA1576A(R,S)	ET	
Q12		2SA1586(Y,GR)		
Q14		2SA1576A(R,S)		
Q14		2SA1586(Y,GR)		
A1		W02-2584-05		
A1		W02-2622-05	YMXV	
<b>POWER AMP (X07-3152-71/3202-10)</b>				
C1 -4		CE04KW1H3R3M		
C5 ,6		CC45FSL1H271J		
C7 -10		CC73FSL1H101J		
C11 ,12		CK45FB1H222K		
C15 ,16		CC45FSL1H101J		
C19 ,20		CK45FF1H103Z		
C21 ,22		CC45FSL1H151J		
C23 ,24		CC45FSL2H560J		
C25 ,26		CC45FSL1H070D		
C27 ,28		CE04KW1A221M		
C29 ,30		CE04KW1H100M		
C51 ,52		CE04KW1H3R3M		
C55 ,56		CE04KW1H3R3M		
C57 ,58		CC45FSL1H680J		
C59 ,60		CC73FSL1H101J		
C61 ,62		CK45FB1H222K		
C63 ,64		CC73FSL1H101J		
C67 ,68		CC45FSL1H101J		
C69 ,70		CE04KW1A221M		
C73 ,74		CK45FF1H103Z		
C75 ,76		CE04KW1H100M		
C77 ,78		CC45FSL1H151J		
C79 ,80		CC45FSL2H560J		
C101 ,102		CE04KW1H3R3M		
C103		CC45FSL1H271J		
C104 ,105		CC73FSL1H101J		
C106		CK45FB1H222K		
C108		CC45FSL1H101J		
C109		CE04KW1A221M		
C111		CK45FF1H103Z		
C112		CE04KW1H100M		
C113		CC45FSL1H151J		
C114		CC45FSL2H560J		
C115		CC45FSL1H070D		
C116		CE04KW1H220M		
C117		CE04KW1E470M		
C119		CE04KW1H220M		
C201 ,202		CK73FB1H103K		
C251 ,252		CK73FB1H103K		
C301		CK73FB1H103K		
C351-354		CF92FV1H224J		
C357 ,358		CQ93FMG1H272J		
C359-362		CF92FV1H224J		
C365 ,366		CQ93FMG1H393J		

L : Scandinavia  
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R : Mexico  
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H : Korea

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M : Other Areas

I : Malaysia

△ indicates safety critical components .

## PARTS LIST

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6

Ref. No	New Parts	Parts No.	Desti- nation	Re- marks	Ref. No	New Parts	Parts No.	Desti- nation	Re- marks	Ref. No	New Parts	Parts No.	Desti- nation	Re- marks
C367,368 C381 C382		CF92FV1H224J CE04KW1A101M CE04KW1H4R7M			R211,212 R213-216 R217,218 R251-254 R255,256		RK73FB2A751J RD14NB2E332J RK73FB2A751J RD14NB2E470J RD14NB2E151J			D403 D404,405 D404,405 D406 D406		UDZ15B MTZJ18(B) RD18ES(B2) MTZJ5.1(B) RD5.1ES(B2)		
C402 C403 C404 C405,406 C407		CE04KW1V470M CE04KW1H220M CE04KW1E470M CE04KW1H100M CE04KW2A470M			R257-260 R261,262 R263-266 R267,268 R301,302		RD14NB2E101J RK73FB2A751J RD14NB2E332J RK73FB2A751J RD14NB2E470J			△ D407 △ D407 D408,409 D408,409 D421		S5688B 1SR139-400 MTZJ20(B) RD20ES(B2) UDZ10B	YMXV	7
C421 C422 C423 C424 C424		CE04KW2A470M CE04KW2A100M CE04KW1E101M CE04KW2A101M CE04KW2A101M	YMXV YMXV ET	7 9 7	R303 R304,305 R306 R307,308 R309		RD14NB2E151J RD14NB2E101J RK73FB2A751J RD14NB2E332J RK73FB2A751J			△ D422,423 D424 △ D501-504 △ D501-504 △ D505-508		UDZ11B UDZ8.2B HSS104A 1SS133 S5688B	YMXV YMXV	7 7
C424 C425 C501-503 C505,506 C507,508		CE04KW2A470M CE04KW2A100M CK45FE2H103P CK45FE2H103P C90-3866-05	YMXV YMXV MX	7 7 9	R351-355 R356-359 R360,361 R402 R404,405		RS14KB3D2R7J RD14NB2E271J RS14KB3D471J RK73FB2A473J RD14NB2E561J			△ D505-508 △ D509 △ D509 △ D510 △ D510		1SR139-400 HSS104A 1SS133 S5688B 1SR139-400		
C507,508 C507,508 C509 C510 C511		C90-3867-05 C90-3868-05 C91-1488-05 C91-1488-05 C91-1488-05	ET YMXV XTEYM	7	R407 R414 R415 R421,422 R421,422		RD14NB2E272J RD14NB2E682J RD14NB2E1R0J RD14NB2E1R0J RD14NB2E560J	YMXV	7 9	△ D511,512 D511,512 △ D513 △ D514 D601	*	HSS104A 1SS133 RBV-1506LFA RBV-4102LFA UDZ5.1B		
C513 C514 C515 C601 C602		CE04RW1H2R2M CE04KW1E102M CK45FF1H103Z C91-1422-05 CE04KW1E470M			R421,422 R423 R424 R425 R426		RD14NB2E560J RK73FB2A473J RK73FB2A101J RD14NB2E272J RK73FB2A912J	ET YMXV YMXV YMXV YMXV	7 7 7 7 7	△ D602 D603 Q1 ,2 Q3 -6 Q7 ,8		MA111 U1BC44 2SC2878(B) 2SA992(F,E) 2SA1123(R,S)		
C603-605 C613,614 C901,902 C903,904 C905-909		CC73FSL1H101J CC45FSL2H100D CE04KW2A100M CC73FSL1H102J CC45FCH1H560J			R427 R428 R429 R501 R507		RK73FB2A473J RK73FB2A101J RD14NB2E272J RD14NB2E271J RK73FB2A103J	YMXV YMXV YMXV	7 7 7	Q9 -12 Q51 ,52 Q55 -58 Q59 ,60 Q61 -64		2SC2631(R,S) 2SC2878(B) 2SA992(F,E) 2SA1123(R,S) 2SC2631(R,S)		
CN1 CN2 CN6 CN10 CN11,12		E40-4873-05 E40-4875-05 E40-8258-05 E40-3246-05 E40-3247-05			R601 R602-606 R607 R608 R901,902		RK73FB2A101J RK73FB2A472J RK73FB2A222J RK73FB2A332J RD14NB2E220J			Q101 Q102,103 Q104,105 Q106 Q107		2SC2878(B) 2SA992(F,E) 2SC2631(R,S) 2SA1123(R,S) DTC124EUA		
CN13 CN14 CN21 CN901-903 J1		E40-4294-05 E40-8257-05 E40-4245-05 E40-9837-05 E70-0118-05			VR1 -5 W601-612 W614-625 W627-629 W651,652		R32-0030-05 R92-0679-05 R92-0679-05 R92-0679-05 R92-0679-05			△ Q107 Q108 Q108 △ Q201,202 △ Q203,204	*	UN5212 2SC1740S(Q,R) 2SC2458(Y,GR) TRAIT6N*5 TRAIT6P*5		
△ J2 △ J2 △ J2 △ J2 △ J2		E03-0148-05 E03-0149-05 E03-0310-05 E03-0325-05 E03-0361-05	Y ME T X V		W651,652 W702-711 W714-717		R92-0679-05 R92-0670-05 R92-0670-05	ET	7	△ Q205,206 Q207,208 △ Q251,252 △ Q253,254 Q255,256	*	2SC1845(F,E) 2SA992(F,E) TRAIT6N*5 TRAIT6P*5 2SC1845(F,E)		
△ F1 △ F1 △ F1 ,2 △ F3 △ FAN		F50-0101-05 F50-0111-05 F50-0101-05 F50-0100-05 F09-0139-05	XET V YM E		K1 -4 K5 K7 S1	*	S76-0076-05 S76-0063-05 S76-0106-05 S31-3010-05	YM		△ Q257,258 △ Q301 Q302 Q303 Q304	*	2SA992(F,E) TRAIT6N*5 TRAIT6P*5 2SC1845(F,E) 2SA992(F,E)		
CN31,32 CN33,34 CN35,36 E3 ,4		J13-0075-05 J13-0075-05 J13-0075-05 J11-0808-05	YM E		D1 -4 D1 -4 D51 -54 D51 -54 D101,102		HSS104A 1SS133 HSS104A 1SS133 HSS104A			Q351-353 Q351-353 Q381,382 Q383,384 Q401		DTC113ZSA UN4219 2SC1845(F,E) 2SA992(F,E) DTC124EUA		
△ L1 ,2 △ T1 △ T1		L39-0085-05 L07-2833-05 L07-2834-05	TVXE YM		D101,102 D104 D104 D201-206 D201-206		1SS133 HSS104A 1SS133 HSS104A 1SS133			Q401 Q402 Q402 Q404 Q404		UN5212 DTC113ZUA UN5219 DTC113ZUA UN5219		
R11 ,12 R23 ,24 R29 -32 R67 ,68 R79 ,80		RK73FB2A512J RD14NB2E101J RD14NB2E221J RK73FB2A512J RD14NB2E101J			D207-210 D251-256 D251-256 D257-260 D301-303		1SS244 HSS104A 1SS133 1SS244 HSS104A			△ Q405 △ Q405 Q406,407 Q406,407 Q408		2SD2012 2SD2061 2SC1740S(Q,R) 2SC2458(Y,GR) 2SA1110(R,S)		
R85 -88 R106 R112 R115,116 R118		RD14NB2E221J RK73FB2A512J RD14NB2E101J RD14NB2E221J RK73FB2A183J			D301-303 D304,305 D351-354 D351-354 D381,382		1SS133 1SS244 HSS104A 1SS133 HSS104A			△ Q421 Q422 Q423 Q423 Q424	*	2SC3944A 2SC1622A(16-8) DTC113ZUA UN5219 2SA992(F,E)	YMXV YMXV YMXV YMXV YMXV	7 7 7 7 7
R119 R120 R201-204 R205,206 R207-210		RK73FB2A101J RD14NB2E220J RD14NB2E180J RD14NB2E151J RD14NB2E101J			D381,382 D383,384 D383,384 D402		1SS133 MTZJ4.7(B) RD4.7ES(B2) UDZ13B			△ Q425		2SA1535A	YMXV	7

L : Scandinavia  
Y : PX(Far East,Hawaii)  
Y : AAFES(Europe)K : USA  
T : England  
X : AustraliaP : Canada  
E : Europe  
Q : RussiaR : Mexico  
G : Germany  
H : KoreaC : China  
V : China(Shanghai)  
M : Other Areas

I : Malaysia

△ indicates safety critical components .

# KRF-V7773D/V7773D-B/V9993D

## PARTS LIST

\* New Parts

Parts without **Parts No.** are not supplied.

Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.

Teile ohne **Parts No.** werden nicht geliefert.

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Ref. No	New Parts	Parts No.	Desti-nation	Re-marks
Q501		DTC113ZSA		
Q501		UN4219		
Q502		2SC2003(L,K)		
Q601-605		2SA1586(Y,GR)		
<b>SURROUND (X08-3020-10/3032-10)</b>				
C27 ,28		CK73FB1H471K		
C31 ,32		C92-0041-05		
C33 ,34		CK73FF1C224Z		
C36		C92-0041-05		
C37		CK73FB1H102K		
C38		C92-0048-05		
C39		CC73FCH1H470J		
C57 ,58		C92-0035-05		
C59		CK73FB1H103K		
C60		CC73FCH1H101J		
C61		CK73FB1H103K		
C62		CC73FCH1H101J		
C63		CK73FB1H103K		
C64		CC73FCH1H101J		
C101		CK73FB1H102K		
C103		CK73FB1H102K		
C104		C92-0048-05		
C105		CK73FB1H102K		
C106		C92-0041-05		
C107		CK73FB1H102K		
C108		C92-0041-05		
C151,152		CK73FB1H682K		
C153,154		CK73FB1H182K		
C155,156		CC73FCH1H470J		
C161-168		CC73FCH1H101J		
C201		CK73FB1H102K		
C203		CK73FB1H102K		
C204		C92-0048-05		
C205		CK73FB1H102K		
C206		C92-0041-05		
C207		CK73FB1H102K		
C208		C92-0041-05		
C251,252		CK73FB1H682K		
C253,254		CK73FB1H182K		
C255,256		CC73FCH1H470J		
C261-268		CC73FCH1H101J		
C301		CK73FB1H102K		
C303		CK73FB1H102K		
C304		C92-0048-05		
C305		CK73FB1H102K		
C306		C92-0041-05		
C307		CK73FB1H102K		
C308		C92-0041-05		
C351		CK73FB1H682K		
C352		CK73FF1E104Z		
C353		CK73FB1H182K		
C354		CK73FB1H333K		
C355		CC73FCH1H470J		
C356		CK73FB1H332K		
C361-368		CC73FCH1H101J		
C400		CK73FF1E104Z		
C401		CK73FB1H102K		
C403,404		CC73FCH1H390J		
C405		CK73FB1H102K		
C407,408		CK73FF1E104Z		
C409-411		CC73FCH1H470J		
C412,413		CK73FB1H103K		
C421		CK73FB1H102K		
C422		C92-0041-05		
C501,502		CC73FCH1H020C		
C504		CK73FB1H102K		
C505-507		CC73FCH1H470J		
C511-538		CK73FB1H102K		
C568-570		CK73FB1H102K		
C571		CK73FF1E104Z		
C589,590		CK73FB1H102K		
C601,602		CC73FCH1H390J		
C603,604		CK73FB1H102K		
C681,682		CK73FF1E104Z		
C690		CK73FF1E104Z		

Ref. No	New Parts	Parts No.	Desti-nation	Re-marks
C810		C92-0048-05		
C811		CK73FF1E104Z		
C812		CE04DW0J102M		
C815		CC73FCH1H470J		
C816		C92-0048-05		
C831		CK73FF1E104Z		
C835		CC73FCH1H470J		
C841		CK73FF1E104Z		
C842		C92-0035-05		
C845		CC73FCH1H470J		
CN1		E40-8232-05		
CN3	*	E40-8542-05		9
CN4	*	E40-8530-05		
X1	*	L77-2275-05		
X2	*	L77-2276-05		
X3	*	L77-2277-05		
R20 ,21		RK73FB2A1R0J		
R27 -30		RK73GB1J102J		
R31		RK73GB1J101J		
R33		RK73GB1J102J		
R34 ,35		RK73GB1J473J		
R36		RK73GB1J470J		
R37		RK73GB1J473J		
R40		RK73GB1J473J		
R57 ,58		RK73FB2A470J		
R101		RK73FB2A1R0J		
R102,103		RK73GB1J102J		
R110,111		RK73FB2A1R0J		
R116		RK73GB1J102J		
R121-124		RK73GB1J562J		
R125-128		RK73GB1J241J		
R129-132		RK73GB1J103J		
R133,134		RK73GB1J622J		
R135,136		RK73GB1J113J		
R137,138		RK73GB1J622J		
R139		RK73GB1J101J		
R141,142		RK73GB1J101J		
R201		RK73FB2A1R0J		
R202,203		RK73GB1J102J		
R210,211		RK73FB2A1R0J		
R216		RK73GB1J102J		
R221-224		RK73GB1J562J		
R225-228		RK73GB1J241J		
R229-232		RK73GB1J103J		
R233,234		RK73GB1J622J		
R235,236		RK73GB1J113J		
R237,238		RK73GB1J622J		
R239		RK73GB1J101J		
R241,242		RK73GB1J101J		
R301		RK73FB2A1R0J		
R302,303		RK73GB1J102J		
R310,311		RK73FB2A1R0J		
R316		RK73GB1J102J		
R321,322		RK73GB1J562J		
R323,324		RK73GB1J821J		
R325		RK73GB1J241J		
R326		RK73GB1J181J		
R327		RK73GB1J241J		
R328		RK73GB1J181J		
R329		RK73GB1J103J		
R330		RK73GB1J113J		
R331		RK73GB1J103J		
R332		RK73GB1J113J		
R333		RK73GB1J622J		
R334		RK73GB1J123J		
R335		RK73GB1J113J		
R336		RK73GB1J183J		
R337		RK73GB1J622J		
R338		RK73GB1J123J		
R339		RK73GB1J101J		
R341		RK73GB1J101J		
R342		RK73GB1J222J		
R400-402		RK73FB2A1R0J		
R403		RK73GB1J101J		
R404		RK73GB1J183J		

Ref. No	New Parts	Parts No.	Desti-nation	Re-marks
R405,406		RK73GB1J103J		
R407		RK73GB1J102J		
R408		RK73GB1J103J		
R409,410		RK73GB1J102J		
R411		RK73GB1J470J		
R413		RK73GB1J470J		
R414		RK73GB1J102J		
R415		RK73GB1J470J		
R416-418		RK73GB1J102J		
R419		RK73GB1J471J		
R420		RK73GB1J102J		
R421		RK73GB1J472J		
R422		RK73GB1J102J		
R424		RK73GB1J102J		
R431,432		RK73GB1J105J		
R501-512		RK73GB1J103J		
R515-520		RK73GB1J101J		
R521-523		RK73GB1J103J		
R524-528		RK73GB1J101J		
R530-532		RK73GB1J101J		
R533		RK73GB1J103J		
R541-543		RK73GB1J470J		
R549		RK73FB2A1R0J		
R550		RK73GB1J101J		
R551		RK73GB1J105J		
R553,554		RK73GB1J472J		
R556		RK73GB1J472J		
R557-559		RK73FB2A1R0J		
R561-588		RK73FB2A1R0J		
R589		RK73GB1J101J		
R590		RK73FB2A1R0J		
R601-603		RK73GB1J473J		
R604,605		RK73GB1J103J		
R606-610		RK73GB1J473J		
R611,612		RK73GB1J103J		
R613-644		RK73GB1J473J		
R645,646		RK73GB1J103J		
R647-650		RK73GB1J473J		
R651		RK73GB1J103J		
R653-655		RK73GB1J473J		
R656		RK73GB1J103J		
R657-660		RK73GB1J473J		
R661		RK73GB1J103J		
R662,663		RK73GB1J153J		
R664,665		RK73GB1J473J		
R667		RK73GB1J102J		
R671,672		RK73GB1J105J		
R681,682		RK73FB2A1R0J		
R690		RK73FB2A1R0J		
R700		RK73GB1J470J		
R701		RK73GB1J101J		
R702-707		RK73GB1J102J		
R708-719		RK73GB1J471J		
R721-723		RK73GB1J102J		
R731-734		RK73GB1J102J		
R751-756		RK73GB1J101J		9
R811-816		RK73FB2A1R0J		
R831-836		RK73FB2A1R0J		
R841,842		RK73FB2A470J		
R900-927		RK73GB1J101J		
D1 -5		DA204U		
IC4	*	AK5383-VS		
IC5 -7	*	AK4393-VF		
IC8 -13	*	NJM4565MD		
IC21	*	ADSST-AUDIO35		
IC22,23		HY57V16160DTC		
IC24	*	49BV008A1AKB		
IC25	*	AK4112-VF		
IC26,27		TC7S04F		
IC28,29		TC7SHU04FU		
IC30	*	TC7WH34FK		
IC31,32	*	TC74LVX573FT		
IC33		TC7SH02F		
IC34		TC7SH32F		
IC35-37		TC7S08FU		

L : Scandinavia  
Y : PX(Far East,Hawaii)  
Y : AAFES(Europe)

K : USA  
T : England  
X : Australia

P : Canada  
E : Europe  
Q : Russia

R : Mexico  
G : Germany  
H : Korea  
C : China  
V : China(Shanghai)  
M : Other Areas

I : Malaysia

Δ indicates safety critical components .

## PARTS LIST

\* New Parts

Parts without **Parts No.** are not supplied.Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.Teile ohne **Parts No.** werden nicht geliefert.

8

Ref. No	New Parts	Parts No.	Destination	Remarks	Ref. No	New Parts	Parts No.	Destination	Remarks	Ref. No	New Parts	Parts No.	Destination	Remarks
IC39		TC74VHC125F			C345,346		CE04KW1H4R7M			J3	*	E63-1114-05		7
IC40	*	UPD784036C851			C347,348		CC73FSL1H470J			J3	*	E63-1115-05		9
IC51		UPC2933T			C349,350		CE04KW1H220M			J101	*	E63-1116-05		7
IC53	*	UPC2905T			C353,354		CC73FSL1H330J			J101	*	E63-1117-05		9
IC54		UPC29L33T			C355,356		CC73FSL1H101J			J102	*	E63-1118-05		7
<b>CONTROL (X11-3870-21/3882-10)</b>					C359		CC73FSL1H101J			J102	*	E63-1119-05		9
C1 ,2		CE04KW1H4R7M			C361,362		CC73FCH1H561J		9	J103	*	E63-1120-05		9
C3 ,4		CC73FCH1H101J			C363,364		CK73FF1E104Z		9	J201	*	E11-0907-05		
C5 ,6		CC73FSL1H101J			C365,366		CE04KW1H4R7M		9	J202		E11-0347-05		
C7 ,8		CE04KW1H220M			C367,368		CC73FSL1H820J		9	J203-208	*	E11-0905-05	TE	9
C9 ,10		CC73FSL1H101J			C369,370		CE04KW1H220M		9	J207,208	*	E11-0905-05	Y	7
C11 ,12		CE04KW1H4R7M			C373,374		CC73FSL1H330J		9	J209	*	E11-0906-05	TE	9
C13 ,14		CC73FCH1H471J			C375,376		CC73FSL1H101J		9	J209	*	E11-0906-05	Y	7
C15 ,16		CC73FSL1H101J			C379		CC73FSL1H101J		9	L201		L40-1015-34	TE	9
C17 ,18		CE04KW1H220M			C401-407		CE04KW1H100M			L203		L40-1015-34	TE	9
C19 ,20		CC73FSL1H101J			C501,502		CC73FSL1H221J			L203		L40-1015-34	Y	7
C21 ,22		CE04KW1H4R7M		9	C503,504		CC73FSL1H101J			R1		RK73FB2A102J		
C23 ,24		CC73FCH1H471J		9	C505,506		CC73FSL1H221J			R3 ,4		RK73FB2A471J		
C25 ,26		CC73FSL1H101J		9	C507-510		CC73FSL1H101J		9	R5 ,6		RK73FB2A474J		
C27 ,28		CE04KW1H4R7M		9	C511,512		CC73FSL1H101J			R7 ,8		RK73FB2A101J		
C29 ,30		CC73FSL1H101J		9	C513-518		CC73FSL1H101J			R9 ,10		RK73FB2A472J		
C31 ,32		CE04KW1H4R7M			C519		CK45FF1H103Z			R15 ,16		RK73FB2A474J		
C33 ,34		CC73FCH1H471J			C520		CC73FSL1H101J			R17 ,18		RK73FB2A471J		
C35 ,36		CC73FSL1H101J			C521		CK45FF1H103Z			R19 ,20		RK73FB2A474J		
C37 ,38		CE04KW1H4R7M			C522-524		CC73FSL1H101J			R21 ,22		RK73FB2A101J		
C39 ,40		CC73FSL1H101J			C525		CK45FF1H103Z		9	R23 ,24		RK73FB2A474J		9
C42		CC73FSL1H101J			C533		CC73FSL1H101J			R25 ,26		RK73FB2A471J		9
C43 ,44		CK73FF1E104Z		9	C534-539		CE04KW1H4R7M			R27 ,28		RK73FB2A474J		9
C51 ,52		CE04KW1H4R7M			C541-546		CK73FF1E104Z			R29 ,30		RK73FB2A101J		9
C53 ,56		CC73FSL1H101J			C547-552		CC73FSL1H101J			R31 ,32		RK73FB2A471J		
C59 ,60		CC73FSL1H101J			C556		CC73FSL1H101J			R33 ,34		RK73FB2A474J		
C61 ,62		CE04KW1H4R7M			C559		CK73FB1H103K			R35 ,36		RK73FB2A101J		
C63 ,66		CC73FSL1H101J			C560		CC73FSL1H101J			R51 ,52		RK73FB2A471J		
C69 ,70		CC73FSL1H101J			C561		CK73FB1H103K			R53 ,54		RK73FB2A104J		
C71 ,74		CK73FB1H103K			C562		CC73FSL1H101J			R55 ,56		RK73FB2A101J		
C75 ,78		CK73FB1H103K		9	C563		CK73FB1H103K			R57 ,58		RK73FB2A470J		
C101,102		CC73FSL1H101J			C564		CC73FSL1H101J			R61 ,62		RK73FB2A471J		
C111,112		CC73FSL1H101J			C565		CE04KW1H100M			R63 ,64		RK73FB2A104J		
C121,122		CC73FSL1H101J			C566		CK73FB1H103K			R65		RK73FB2A472J		
C131-133		CC73FSL1H101J			C567		CC73FSL1H101J			R66		RK73FB2A101J		
C201,202		CC73FSL1H221J		9	C568		CK73FB1H103K		9	R67 ,68		RK73FB2A470J		
C204,205		CC73FSL1H221J			C569		CC73FSL1H101J		9	R101,102		RK73FB2A224J		
C206		CC73FSL1H101J	TE	9	C571		CK45FF1H103Z			R103,104		RK73FB2A471J		
C207		CK73FB1E823K	TE	9	C572		CC73FSL1H101J			R105,106		RK73FB2A222J		
C211,212		CC73FCH1H102J	TE	9	C573		CK45FF1H103Z			R107,108		RK73FB2A471J		
C213,214		CK73FF1E104Z	TE	9	C574		CC73FSL1H101J		9	R109,110		RK73FB2A222J		
C215		CC73FSL1H101J	TE	9	C575		CK45FF1H103Z		9	R121,122		RK73FB2A224J		
C215		CC73FSL1H101J	Y	7	C576,577		CC73FSL1H101J			R123,124		RK73FB2A471J		
C216		CC73FSL1H331J	TE	9	C578,579		CC73FSL1H101J		9	R125,126		RK73FB2A222J		
C216		CC73FSL1H331J	Y	7	C580		CK73FB1H103K		9	R127,128		RK73FB2A471J		
C217		CC73FCH1H102J	TE	9	C581,582		CC73FSL1H101J		9	R129,130		RK73FB2A222J		
C217		CC73FCH1H102J	Y	7	C583-588		CE04KW1H220M			R141,142		RK73FB2A224J		
C219,220		CC73FSL1H101J	TE	9	C589,590		CE04KW1H220M		9	R143,144		RK73FB2A471J		
C219,220		CC73FSL1H101J	Y	7	C591		CC73FSL1H101J		9	R145,146		RK73FB2A222J		
C230		CK73FF1E104Z	TE	9	C594		CK73FB1H103K			R147,148		RK73FB2A471J		
C230		CK73FF1E104Z	Y	7	C595,596		CC73FCH1H560J			R149,150		RK73FB2A222J		
C301,302		CK73FB1H561K			CN1		E40-9829-05			R161,162		RK73FB2A224J		9
C303,304		CK73FF1E104Z			CN2		E40-9836-05			R163,164		RK73FB2A471J		9
C305,306		CE04KW1H4R7M			CN3		E40-8375-05			R165,166		RK73FB2A222J		9
C307,308		CC73FSL1H470J			CN4	*	E40-8642-05			R167,168		RK73FB2A471J		9
C309,310		CE04KW1H220M			CN101	*	E40-8354-05			R169,170		RK73FB2A222J		9
C313,314		CC73FSL1H330J			CN102		E40-9820-05			R171		RK73FB2A104J		9
C315,316		CC73FSL1H101J			CN201		E40-8253-05			R201		RD14NB2E471J	TE	9
C319		CC73FSL1H101J			CN301		E40-4297-05			R202		RK73FB2A102J	TE	9
C321,322		CK73FB1H561K			CN302		E40-9840-05			R203		RK73FB2A473J	TE	9
C323,324		CK73FF1E104Z			CN303		E40-9847-05			R204		RK73FB2A102J	TE	9
C325,326		CE04KW1H4R7M			CN304		E40-9851-05			R205		RK73FB2A103J		
C327		CC73FSL1H470J			CN305	*	E40-9839-05		9	R213,214		RD14NB2E471J	TE	9
C328		CC73FSL1H820J			CN306		E40-9842-05			R215-218		RK73FB2A223J	TE	9
C329,330		CE04KW1H220M			CN307-309		E40-9846-05			R219		RD14NB2E100J	TE	9
C332		CC73FSL1H101J			CN310		E40-9853-05			R220		RK73FB2A102J	TE	9
C333		CC73FSL1H330J			CN311,312		E40-8257-05			R221,222		RK73FB2A103J	TE	9
C334-336		CC73FSL1H101J			CN313-315		E40-9837-05			R223		RK73FB2A102J	TE	9
C339		CC73FSL1H101J			J1	*	E63-1164-05		7	R224		RK73FB2A101J	TE	9
C341,342		CK73FB1H561K			J1 ,2	*	E63-1111-05		9	R224		RK73FB2A101J	Y	7
C343,344		CK73FF1E104Z			J2	*	E63-1163-05		7	R225		RK73FB2A102J	TE	9

L : Scandinavia

Y : PX(Far East,Hawaii)

Y : AAFES(Europe)

K : USA

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Q : Russia

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G : Germany

H : Korea

C : China

V : China(Shanghai)

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⚠ indicates safety critical components .

## PARTS LIST

\* New Parts

Parts without **Parts No.** are not supplied.Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.Teile ohne **Parts No.** werden nicht geliefert.

9

Ref. No	New Parts	Parts No.	Desti-nation	Re-marks	Ref. No	New Parts	Parts No.	Desti-nation	Re-marks	Ref. No	New Parts	Parts No.	Desti-nation	Re-marks
R225		RK73FB2A102J	Y	7	R507-510		RK73FB2A471J			Q210		2SC4081(R,S)	TE	9
R226		RK73FB2A103J	TE	9	R511,512		RK73FB2A471J		9	Q210		2SC4116(Y,GR)	TE	9
R226		RK73FB2A103J	Y	7	R513-518		RK73FB2A471J			Q211		DTA113ZUA	TE	9
R227		RK73FB2A472J	TE	9	R519,520		RK73FB2A474J			Q211		UN5119	TE	9
R227		RK73FB2A472J	Y	7	R521,522		RK73FB2A104J							
R228,229		RK73FB2A102J	TE	9	R523,524		RK73FB2A474J			Q212		2SA1576A(R,S)	TE	9
R228,229		RK73FB2A102J	Y	7	R525-528		RK73FB2A104J		9	Q212		2SA1576A(R,S)	Y	7
R230		RK73FB2A223J	TE	9	R529,530		RK73FB2A104J			Q212		2SA1586(Y,GR)	TE	9
R230		RK73FB2A223J	Y	7	R531-536		RK73FB2A104J			Q212		2SA1586(Y,GR)	Y	7
R231,232		RD14NB2E471J	TE	9	R537		RK73FB2A102J			Q213		DTC124EUA	TE	9
R231,232		RD14NB2E471J	Y	7	R540		RK73FB2A103J			Q213		DTC124EUA	Y	7
R233		RK73FB2A101J	TE	9	R547-550		RK73FB2A470J		9	Q213		UN5212	TE	9
R233		RK73FB2A101J	Y	7	R551,552		RK73FB2A470J			Q213		UN5212	Y	7
R234		RK73FB2A223J	TE	9	R553,554		RK73FB2A113J			Q214		2SC4081(R,S)	TE	9
R234		RK73FB2A223J	Y	7	R555,556		RK73FB2A472J			Q214		2SC4081(R,S)	Y	7
R235		RK73FB2A102J	TE	9	R565-570		RK73FB2A470J		9	Q214		2SC4116(Y,GR)	TE	9
R235		RK73FB2A102J	Y	7	R571,572		RK73FB2A470J			Q214		2SC4116(Y,GR)	Y	7
R236		RK73FB2A272J	TE	9	R573-578		RK73FB2A104J		9	Q215		2SA1576A(R,S)	TE	9
R236		RK73FB2A272J	Y	7	R579,580		RK73FB2A104J			Q215		2SA1576A(R,S)	Y	7
R237		RK73FB2A222J	TE	9	R581-586		RK73FB2A224J			Q215		2SA1586(Y,GR)	TE	9
R237		RK73FB2A222J	Y	7	R587,588		RK73FB2A224J		9	Q216		2SA1586(Y,GR)	Y	7
R238		RK73FB2A102J	TE	9	R589-594		RK73FB2A822J			Q216		2SC4081(R,S)	TE	9
R238		RK73FB2A102J	Y	7	R595,596		RK73FB2A822J		9	Q216		2SC4081(R,S)	Y	7
R239		RD14NB2E471J	TE	9	R597-602		RK73FB2A470J			Q216		2SC4116(Y,GR)	TE	9
R239		RD14NB2E471J	Y	7	R603,604		RK73FB2A470J		9	Q216		2SC4116(Y,GR)	Y	7
R241		RK73FB2A473J	TE	9	R605-610		RK73FB2A470J		9	Q301,302		2SC4213(B)		
R241		RK73FB2A473J	Y	7	R611,612		RK73FB2A470J			Q311,312		2SC4213(B)		
R242		RK73FB2A102J	TE	9	R613,614		RK73FB2A470J			Q321,322		2SC4213(B)		
R242		RK73FB2A102J	Y	7	W400		R92-0679-05			Q401		DTA113ZUA		
R243		RK73FB2A470J	TE	9	W402		R92-0679-05			Q401		UN5119		
R243		RK73FB2A470J	Y	7	W404		R92-0679-05			Q402		DTC143TUA		
R301,302		RK73FB2A105J			W405,406		R92-0670-05			Q402		UN5216		
R303,304		RK73FB2A124J			W407		R92-0670-05			Q403		DTA113ZUA		
R305,306		RK73FB2A103J			W411-413		R92-0679-05	TE	9	Q403		UN5119		
R307,308		RK73FB2A332J			W411,412		R92-0670-05	Y	7	Q404		DTC143TUA		
R309,310		RK73FB2A163J			D203		DA204U	TE	9	Q404		UN5216		
R311,312		RK73FB2A133J			D207		UD25,1B	TE	9	Q405		DTA113ZUA		
R313,314		RK73FB2A470J			D208		DA204U	TE	9	Q405		UN5119		
R315-317		RK73FB2A103J			D208		DA204U	Y	7	Q406		DTC143TUA		
R331,332		RK73FB2A105J			D209		U1BC44			Q406		UN5216		
R333,334		RK73FB2A124J			D210		MA111	TE	9	Q407		DTA113ZUA		
R335,336		RK73FB2A103J			D210		MA111	Y	7	Q407		UN5119		
R337		RK73FB2A332J			D212		MA111	TE	9	Q408		DTC143TUA		
R338		RK73FB2A432J			D212		MA111	Y	7	Q408		UN5216		
R339		RK73FB2A163J			D401-403		U1BC44			Q409		DTA113ZUA		
R340		RK73FB2A223J			D404		HSS104A			Q409		UN5119		
R341		RK73FB2A133J			D404		1SS133			Q410		DTC143TUA		
R342		RK73FB2A163J			IC1		NJU7313AM			Q410		UN5216		
R343		RK73FB2A470J			IC2		NJM4565MD							
R351,352		RK73FB2A105J			IC3		NJU7311AM							
R353,354		RK73FB2A124J			IC4		NJM4565MD							
R355,356		RK73FB2A103J			IC5		NJU7312AM		9					
R357,358		RK73FB2A332J			IC6		NJM4565MD		9					
R359,360		RK73FB2A163J			IC7 -9		NJM4565MD							
R361,362		RK73FB2A133J			IC201	*	TC4W53FU	TE	9					
R363,364		RK73FB2A470J			IC201		TC4W53FU	Y	7					
R371,372		RK73FB2A105J		9	IC301-303	*	TC9459F							
R373,374		RK73FB2A124J		9	IC304	*	TC9459F		9					
R379,380		RK73FB2A302J		9	IC305-307		NJM4565MD							
R381,382		RK73FB2A133J		9	IC308		NJM4565MD		9					
R401,402		RD14NB2E4R7J			Q101-104		2SC4213(B)							
R403		RK73FB2A272J			Q111-114		2SC4213(B)							
R404		RK73FB2A103J			Q121-124		2SC4213(B)							
R405		RK73FB2A122J			Q131-134		2SC4213(B)		9					
R406		RK73FB2A683J			Q201		2SC4081(R,S)	TE	9					
R407		RK73FB2A122J			Q201		2SC4116(Y,GR)	TE	9					
R408		RK73FB2A683J			Q202		DTC124EUA	TE	9					
R409		RK73FB2A122J			Q202		UN5212	TE	9					
R410		RK73FB2A683J			Q206		DTA124EUA	TE	9					
R411		RK73FB2A122J			Q206		UN5112	TE	9					
R412		RK73FB2A683J			Q207		DTC124EUA	TE	9					
R415		RK73FB2A181J			Q207		UN5212	TE	9					
R416,417		RK73FB2A103J			Q208		DTA124EUA	TE	9					
R501,502		RK73FB2A102J			Q208		UN5112	TE	9					
R503,504		RK73FB2A471J			Q209		DTC124EUA	TE	9					
R505,506		RK73FB2A102J			Q209		UN5212	TE	9					
SUB (X13-7702-71/7742-10)														
C1 -5		CC73FSL1H101J			C6		CC73FSL1H101J		9					
C7 ,8		CC73FSL1H101J			C7 ,8		CC73FSL1H101J							
C9 ,10		CE04KW0J471M			C9 ,10		CE04KW0J471M							
C11 -14		CE04KW1H010M			C11 -14		CE04KW1H010M							
C15		CE04KW1H010M			C15		CE04KW1H010M		9					
C16		CC73FSL1H101J			C16		CC73FSL1H101J							
C17		CK73FB1H103K			C17		CK73FB1H103K							
C18 ,19		CE04KW1H010M			C18 ,19		CE04KW1H010M							
C21		CE04KW1C470M			C21		CE04KW1C470M							
C22		CE04KW0J471M			C22		CE04KW0J471M							
C23 -27		CE04KW1H010M			C23 -27		CE04KW1H010M		9					
C28		CE04KW1C470M			C28		CE04KW1C470M		9					
C29		CK73FB1H182K			C29		CK73FB1H182K		9					
C30		CC73FSL1H102J			C30		CC73FSL1H102J		9					
C31		CE04KW1H220M			C31		CE04KW1H220M		9					
C32		CE04KW1H100M			C32		CE04KW1H100M		9					
C33		CK73FF1C224Z			C33		CK73FF1C224Z		9					
C34		CK73FB1H103K			C34		CK73FB1H103K		9					
C35		CK73FB1H103K			C35		CK73FB1H103K		9					
C36 ,37		CK73FB1H103K			C36 ,37		CK73FB1H103K		9					
C38		CE04KW1A101M			C38		CE04KW1A101M		9					
C39		CE04KW0J471M			C39		CE04KW0J471M		9					
C40		CK73FB1H103K			C40		CK73FB1H103K		9					
C41		CE04KW1A101M			C41		CE04KW1A101M		9					
C51 -60		CC73FSL1H101J			C51 -60		CC73FSL1H101J							
C61 ,62		CC73FSL1H101J			C61 ,62		CC73FSL1H101J		9					

L : Scandinavia

K : USA

P : Canada

R : Mexico

C : China

I : Malaysia

Y : PX(Far East,Hawaii)

T : England

E : Europe

G : Germany

V : China(Shanghai)

Y : AAFES(Europe)

X : Australia

Q : Russia

H : Korea

M : Other Areas

△ indicates safety critical components.

# KRF-V7773D/V7773D-B/V9993D

## PARTS LIST

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10

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C63 -66 C67 -69 C70		CC73FSL1H101J CK73FF1E104Z CK73FF1E104Z		9	C491 C492		CK45FF1H103Z CE04KW1V102M			C903,904 C905,906 C907,908 C909,910 C911,912		CK73FB1H561K CE04KW1H010M CC73FSL1H270J CK73FB1H183K CK73FB1H562K		
C71 C72 C73 C74 C75		CK73FF1E104Z CE04KW0J471M CK73FF1E104Z CE04KW1H010M CK73FB1C104K			C493 C494 C495 C501,502 C503		CE04KW1H220M CE04KW1H470M CC73FSL1H101J CK73FB1C104K CE04KW1A101M			C913,914 C915,916 C917,918 C919,920 C921		CE04KW1H100M CK73FB1H153K CK73FB1H683K CK73FB1H821K CK73FB1H103K		
C76 C77 C78 C79 C80		CE04KW0J471M CK73FF1E104Z CE04KW1H010M CK73FB1C104K CE04KW1H010M			C505 C506 C507 C508 C511		CC73FSL1H220J CK73FB1C104K CC73FSL1H220J CC73FSL1H220J CK73FB1C104K		9 9 9	C922 C951 C961 C962 C963		CC73FSL1H101J CC73FSL1H101J CK73FB1H103K CC73FSL1H101J CC73FSL1H471J		
C81 C82 C83 C84 C85		CK73FB1C104K CE04KW1H010M CK73FB1C104K CE04KW1H010M CK73FB1C104K		9 9	C512 C513,514 C521 C522 C523,524		CK73FB1H103K CC73FSL1H470J CK73FB1C104K CK73FB1H103K CC73FSL1H470J			C971 C972 C973 C974,975		CK73FB1H103K CC73FSL1H101J CC73FSL1H471J CC73FCH1H560J		
C86 C87 C88 ,89 C91 ,92 C93 ,94		CE04KW0J471M CK73FF1E104Z CK73FF1C105Z CE04KW1H010M CK73FB1C104K		9	C531 C532 C533,534 C541 C542		CK73FB1C104K CK73FB1H103K CC73FSL1H470J CK73FB1C104K CK73FB1H103K		9 9	CN1 ,2 CN3 CN4 ,5 CN6 CN7	*	E40-8252-05 E40-8542-05 E40-9829-05 E40-9825-05 E40-3271-05		
C95 C96 C97 ,98 C99 ,100 C101,102		CE04KW1H010M CK73FB1H223K CK73FB1H103K CE04KW1C470M CE04KW0J221M		9 9	C543,544 C551 C552 C553,554 C561		CC73FSL1H470J CK73FB1C104K CK73FB1H103K CC73FSL1H470J CK73FB1C104K		9 9 9 9	CN8 CN9 CN10 CN11,12 CN21		E40-3270-05 E40-8254-05 E40-8252-05 E40-9820-05 E40-3257-05		
C103 C104 C105 C106 C107		CE04KW1H100M CK73FB1H182K CC73FSL1H102J CE04KW1H220M CE04KW0J221M		9 9 9 9 9	C562 C563,564 C571 C572 C573,574		CK73FB1H103K CC73FSL1H470J CK73FB1C104K CK73FB1H103K CC73FSL1H470J		9 9 9 9	CN51 CN52 CN53 J1 J1 ,2		E40-8232-05 E40-9834-05 E40-9830-05 E63-1021-05 E63-1125-05		
C108 C109 C110,111 C201-203 C204		CK73FF1C105Z CK73FB1H103K CK73FF1E104Z CK73FB1H103K CC73FSL1H101J	TE	9 9 9	C591 C594-596 C597,598 C601,602 C603,604		CC73FSL1H270J CK73FB1H102K CK73FB1H102K CE04KW1H4R7M CC45FSL1H470J		9	J2 ,3 J3 J4 J4 ,5 J5 ,6	*	E63-1020-05 E63-1123-05 E56-0029-05 E56-0030-05 E56-0027-05		7 9 7 9 7
C204 C205 C206 C206 C207-209		CC73FSL1H101J CK73FF1E104Z CK73FB1E823K CK73FB1E823K CC73FSL1H101J	Y TE Y	7 9 7	C605,606 C607,608 C609,610 C611,612 C613,614		CC73FSL1H101J CE04KW1H100M CC73FSL1H470J CC45FSL1H271J CC73FSL1H101J			J6 J51 J52 J52 J53 ,54	*	E56-0028-05 E63-1128-05 E63-1129-05 E63-1130-05 E63-1124-05		9 9 7 9 9
C210 C211 C212,213 C214 C215		CK73FB1H472K CC73FSL1H101J CK73FF1C105Z CC73FSL1H102J CE04KW1A101M			C615,616 C617,618 C619,620 C621,622 C623,624		CE04KW1H100M CC73FSL1H470J CC45FSL1H271J CC73FSL1H101J CQ93FMG1H222J			△ F5 △ F5 △ F6 ,7 △ F6 ,7 △ F8	*	F05-8013-05 F50-0107-05 F06-1022-05 F50-0108-05 F05-2525-05	EMXYT V EMXYT V EMXYT	
C216 C217,218 C219 C220 C221		C90-1826-05 CC73FCH1H220J CE04KW1H100M CC73FSL1H561J CC73FSL1H331J	ET ET ET		C625,626 C627,628 C629,630 C631 C632		CK73FB1C104K CE04KW1H100M CC73FSL1H470J CK73FB1H103K CC73FSL1H101J			△ F8		F50-0080-05	V	
C222 C223 C224 C225,226 C227		CE04KW1H100M CE04KW1H010M CK73FB1H103K CK73FF1E104Z CC73FSL1H101J	ET		C633 C635 C637 C638 C639-642		CK73FB1H102K CK73FB1H102K CQ93FMG1H472J CQ93FMG1H104J CQ93FMG1H472J			CN22-29		J13-0075-05		
C228 C401,402 C403,404 C405 C406		CK73FB1H103K CE04KW1V102M CC73FSL1H102J CE04KW1H100M CE04KW1E221M			C701 C702,703 C704 C705 C711		CE04KW1H100M CC73FSL1H101J CE04KW1H100M CC73FSL1H101J CK73FB1H103K			L2 L3 L12 L12 X1	*	L76-0019-05 L79-1262-05 L40-1015-34 L40-1015-34 L78-0615-05		9 9 9 7
C407,408 C409 C410 C411 C412,413		CE04KW1E470M CC73FSL1H681J CC73FSL1H101J CC73FSL1H102J CC73FSL1H470J			C712 C731-740 C741 C742 C743,744		CC73FSL1H101J CC73FSL1H101J CK73FB1H103K CC73FSL1H101J CE04KW1H2R2M			X2 X3 R1 R2 R3 R4 ,5 R6		L78-0674-05 L77-2002-05 RK73FB2A104J RK73FB2A750J RK73FB2A104J RK73FB2A750J RK73FB2A750J	ET	9
C451 C452 C455 C456 C461		CK45FF1H103Z CE04KW1C472M CE04KW1C101M CE04KW1A101M CE04KW1C101M			C801,802 C803-808 C809,810 C811,812 C813,814		CE04KW1H2R2M CC73FSL1H101J CE04KW1H220M CC73FSL1H101J CE04KW1E470M			R7 R8 R9 R10 R11		RK73FB2A104J RK73FB2A104J RK73FB2A750J RK73FB2A104J RK73FB2A750J		
C462 C463 C471		CE04KW1H100M CK73FB1H103K CK45FF1H103Z			C821 C822 C851 C901,902		CK73FB1H103K CC73FSL1H101J CE04KW1H100M CE04KW1H010M			R12 R13 R14 ,15 R16 R16		RK73FB2A104J RK73FB2A750J RK73FB2A103J RD14NB2E4R7J RD14NB2E4R7J		9
										R17		RK73FB2A562J		9

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# KRF-V7773D/V7773D-B/V9993D

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R18		RK73FB2A103J		9	R213-219		RK73FB2A102J			R411		RK73FB2A224J		
R19		RK73FB2A223J		9	R220		RK73FB2A473J			R451,452		RS14KB3D1R0J		
R20		RK73FB2A103J		9	R221-224		RK73FB2A102J			R453		RK73FB2A471J		
R21		RK73FB2A104J		9	R225		RK73FB2A101J			R454,455		RK73FB2A102J		
R22		RK73FB2A101J		9	R226		RK73FB2A102J			R456		RK73FB2A222J		
R23		RK73FB2A474J		9	R227-230		RK73FB2A101J			R457		RK73FB2A152J		
R24		RK73FB2A153J		9	R231		RK73FB2A105J			R461,462		RK73FB2A331J		
R25 ,26		RK73FB2A103J		9	R232-237		RK73FB2A473J			R463		RK73FB2A222J		
R27		RK73FB2A222J		9	R238-240		RK73FB2A101J			R464		RK73FB2A391J		
R28		RK73FB2A103J		9	R241		RK73FB2A104J			R491		RD14NB2E332J		
R29 ,30		RK73FB2A473J			R242-249		RK73FB2A101J			R492		RK73FB2A221J		
R31 ,32		RK73FB2A1R0J			R250		RK73FB2A104J			R493		RD14NB2E1R0J		
R33 -35		RK73FB2A1R0J		9	R251		RK73FB2A473J	TE	9	R501		RD14NB2E1R0J		
R36		RK73FB2A750J		9	R251		RK73FB2A473J	Y	7	R505		RK73FB2A100J		9
R37		RK73FB2A1R0J		9	R252		RK73FB2A102J	TE	9	R506		RK73FB2A221J		9
R38		RK73FB2A101J		9	R252		RK73FB2A102J	Y	7	R507,508		RK73FB2A750J		9
R39		RK73FB2A103J		9	R253,254		RK73FB2A104J			R509		RK73FB2A101J		
R40		RK73FB2A473J		9	R255		RK73FB2A102J	TE	9	R510		RD14NB2E1R0J		
R51 ,52		RK73FB2A104J			R255		RK73FB2A102J	Y		R511		RK73FB2A750J		
R53		RK73FB2A750J			R256		RK73FB2A1R0J			R512		RK73FB2A751J		
R54 ,55		RK73FB2A104J			R258,259		RK73FB2A104J			R513		RK73FB2A104J		
R56 ,57		RK73FB2A750J			R260,261		RK73FB2A331J			R514		RK73FB2A473J		
R58		RK73FB2A750J		9	R262,263		RK73FB2A102J			R515		RK73FB2A224J		
R59		RK73FB2A750J			R264,265		RK73FB2A393J		7	R516		RK73FB2A470J		
R60 ,61		RK73FB2A104J			R266,267		RK73FB2A393J		9	R517		RK73FB2A100J		
R62 -64		RK73FB2A750J			R268		RK73FB2A332J			R521		RK73FB2A750J		
R65		RK73FB2A750J		9	R269		RK73FB2A103J			R522		RK73FB2A751J		
R66		RK73FB2A750J			R270		RK73FB2A332J			R523		RK73FB2A104J		
R67		RK73FB2A104J			R271-277		RK73FB2A473J			R524		RK73FB2A473J		
R68 ,69		RK73FB2A750J			R279		RK73FB2A333J	YMXV		R525		RK73FB2A224J		
R70 ,71		RK73FB2A104J			R281		RK73FB2A473J			R526		RK73FB2A470J		
R72 ,73		RK73FB2A750J			R282		RK73FB2A333J			R531		RK73FB2A750J		
R74		RK73FB2A104J			R283		RK73FB2A473J			R532		RK73FB2A751J		
R75 ,76		RK73FB2A750J			R284		RK73FB2A333J	T		R533		RK73FB2A104J		
R77 -80		RK73FB2A103J			R284		RK73FB2A333J	XE		R534		RK73FB2A473J		
R81 ,82		RK73FB2A473J			R285-287		RK73FB2A332J			R535		RK73FB2A224J		
R83 ,84		RK73FB2A1R0J			R289		RK73FB2A105J			R536		RK73FB2A470J		
R85		RK73FB2A1R0J			R290,291		RK73FB2A332J			R537		RK73FB2A100J		
R86		RK73FB2A103J		9	R292		RK73FB2A333J			R541		RK73FB2A750J		9
R87		RK73FB2A273J		9	R293,294		RK73FB2A473J	ET		R542		RK73FB2A751J		9
R88		RK73FB2A332J		9	R296,297		RK73FB2A333J	YMV		R543		RK73FB2A104J		9
R91 ,92		RK73FB2A1R0J			R297		RK73FB2A333J	XET		R544		RK73FB2A473J		9
R93 ,94		RK73FB2A151J		9	R298,299		RK73FB2A332J			R545		RK73FB2A224J		9
R95		RK73FB2A103J		9	R300,301		RK73FB2A102J	ET		R546		RK73FB2A470J		9
R96		RK73FB2A472J		9	R302		RK73FB2A103J	ET		R547		RK73FB2A103J		7
R97		RK73FB2A103J		9	R303		RK73FB2A1R0J			R551		RK73FB2A750J		9
R98		RK73FB2A223J		9	R304		RK73FB2A102J			R552		RK73FB2A751J		9
R99 ,100		RK73FB2A103J		9	R305		RK73FB2A103J			R553		RK73FB2A104J		9
R101		RK73FB2A562J		9	R306-309		RK73FB2A332J			R554		RK73FB2A473J		9
R102		RK73FB2A104J		9	R310		RK73FB2A103J			R555		RK73FB2A224J		9
R103		RK73FB2A101J		9	R311		RK73FB2A102J			R556		RK73FB2A470J		9
R104		RK73FB2A474J		9	R312		RK73FB2A104J			R557		RK73FB2A103J		7
R105,106		RK73FB2A103J		9	R313		RD14NB2E331J			R558		RK73FB2A100J		9
R107		RK73FB2A222J		9	R314,315		RK73FB2A332J			R561		RK73FB2A750J		9
R108		RK73FB2A472J		9	R316		RK73FB2A103J			R562		RK73FB2A751J		9
R109-112		RK73FB2A102J		9	R317		RK73FB2A470J			R563		RK73FB2A104J		9
R113		RK73FB2A183J		9	R318		RK73FB2A102J			R564		RK73FB2A473J		9
R114		RK73FB2A103J		9	R319		RK73FB2A103J			R565		RK73FB2A224J		9
R115		RK73FB2A103J		9	R320-327		RK73FB2A101J	XET		R566		RK73FB2A470J		9
R116		RK73FB2A273J		9	R320-329		RK73FB2A101J	YMV		R567		RK73FB2A103J		7
R117		RK73FB2A332J		9	R329		RK73FB2A101J	XET		R571		RK73FB2A750J		9
R118		RK73FB2A104J		9	R330-334		RK73FB2A332J			R572		RK73FB2A751J		9
R119,120		RK73FB2A471J		9	R335-340		RK73FB2A101J			R573		RK73FB2A104J		9
R121		RK73FB2A222J			R341		RK73FB2A102J			R574		RK73FB2A473J		9
R122		RK73FB2A332J			R342-344		RK73FB2A472J			R575		RK73FB2A224J		9
R123		RK73FB2A473J		9	R345		RS14KB3D330J			R576		RK73FB2A470J		9
R151		RK73FB2A332J			R346,347		RK73FB2A101J			R577		RK73FB2A103J		7
R152-154		RK73FB2A101J			R401,402		RK73FB2A391J			R578		RK73FB2A100J		9
R200		RK73FB2A103J	TE	9	R403		RK73FB2A101J			R591		RK73FB2A102J		
R200		RK73FB2A103J	Y	7	R404		RK73FB2A222J			R592		RK73FB2A103J		
R202		RK73FB2A332J			R405		RK73FB2A153J			R593		RK73FB2A101J		
R203-205		RK73FB2A101J			R406		RK73FB2A391J			R594		RK73FB2A100J		
R206,207		RK73FB2A332J			R407		RK73FB2A101J			R596		RK73FB2A681J		
R208		RK73FB2A101J			R408		RK73FB2A222J			R601-604		RK73FB2A273J		
R209,210		RK73FB2A332J			R409		RK73FB2A101J			R605,606		RK73FB2A243J		
R211,212		RK73FB2A101J			R410		RK73FB2A163J			R607,608		RK73FB2A103J		

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## PARTS LIST

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Ref. No	New Parts	Parts No.	Desti- nation	Re- marks	Ref. No	New Parts	Parts No.	Desti- nation	Re- marks	Ref. No	New Parts	Parts No.	Desti- nation	Re- marks
R609,610 R611,612 R613,614 R615,616 R617-620		RK73FB2A271J RK73FB2A243J RK73FB2A103J RK73FB2A271J RK73FB2A103J			IC2 IC3 IC4 IC5 IC6	*	BA7611AF BA7623F BA7626F BA7649AF NJM4565MD			Q407 Q407 Q408 Q408 Q451,452		2SC4081(R,S) 2SC4116(Y,GR) 2SA1576A(R,S) 2SA1586(Y,GR) 2SB1370		
R655,656 R701 R702 R703 R704,705		RK73FB2A100J RK73FB2A224J RK73FB2A101J RK73FB2A470J RK73FB2A472J			IC7,8 IC9,10 IC11,12 IC13 IC14	*	BA7649AF BA7611AF BA7623F NJM4565MD UPC29M05HB			Q451,452 Q453 Q453 Q461 Q461		2SB1375 2SC4081(R,S) 2SC4116(Y,GR) 2SD2012 2SD2061		
R706 R729,730 R731,732 R733-740 R801,802		RK73FB2A470J RK73FB2A102J RK73FB2A682J RK73FB2A472J RK73FB2A224J			IC21 IC21 IC22 IC23 IC23	*	TC7WT125FU TC7WT125FU UPD17215GT-737 UPD784215GF570 UPD784215GF575	TE Y	9 7 7 9	Q462 Q463 Q463 Q491 Q491		2SK246(Y,GR) 2SC4081(R,S) 2SC4116(Y,GR) 2SD2012 2SD2061		
R803-806 R807,808 R809,810 R811,812 R851		RK73FB2A472J RK73FB2A224J RK73FB2A102J RK73FB2A470J RK73FB2A103J			IC24 IC25 IC26 IC27 IC28	*	TC7WT125FU LC72723M S-80740AL-A4 TA78057S TC7S04F	ET		Q492 Q492 Q801,802 Q851 Q851		2SC4081(R,S) 2SC4116(Y,GR) 2SC4213(B) DTC124EUA UN5212		
R852 R853 R854 R901,902 R903,904		RK73FB2A332J RK73FB2A152J RK73FB2A103J RK73FB2A393J RK73FB2A103J			IC28 IC50 IC51,52 IC53,54 IC55		TC7S04F UPC2905HF TC74HCU04AF TC74HCU04AF TC74HC151AF	Y	7	Q852 Q852		2SA1576A(R,S) 2SA1586(Y,GR)		
R905,906 R907,908 R909,910 R911,912 R913,914		RK73FB2A124J RK73FB2A433J RK73FB2A184J RK73FB2A394J RK73FB2A821J			IC60-62 IC66-70 IC71 IC81 IC82		NJM4565MD NJM4565MD TC9184AP NJU7311AM NJU7312AM			<b>DISPLAY (X25-6322-71/6352-10)</b>				
R915,916 R917,918 R919,920 R921,922 R923,924		RK73FB2A392J RK73FB2A163J RK73FB2A684J RK73FB2A392J RK73FB2A223J			IC84 Q1,2 Q3 Q3 Q4,5		LM431AIZ 2SC4213(B) 2SC4081(R,S) 2SC4116(Y,GR) DTA124EUA		9 9	D3 -10 D11 D11 D12 D15 -18		B30-2532-05 B30-2548-05 * B30-2571-05 B30-2430-05 * B30-2571-05		7 9 9 9 9
R925,926 R951 R961 R971 R972		RK73FB2A102J RK73FB2A103J RK73FB2A102J RK73FB2A102J RK73FB2A103J			Q4,5 Q6 Q6 Q7 Q7		UN5112 DTC124EUA UN5212 2SA1576A(R,S) 2SA1586(Y,GR)		9 9	C1,2 C3 C4 C5 C6	*	CE04RW1C101M CK73FB1H102K CC73FCH1H101J CE04KW1C100M CK73FB1H103K		
W3 W3		R92-0670-05 R92-0670-05	MX MXETV	9 7	Q8 Q9 Q9 Q11 -14 Q15,16		2SC4213(B) DTA124EUA UN5112 2SC4213(B) DTA124EUA		9 9 9 9	C7 -22 C23 C24 C25 -27 C28		CK73FB1H221K CE04KW1C100M CK73FB1H471K CC73FCH1H101J CE04KW1C470M		
D1 D2 D3 D4 D5		DA204U DAP202U DAN202U DAP202U MA111		9 9	Q15,16 Q17 Q17 Q18,19 Q18,19		UN5112 DTC124EUA UN5212 DTA124EUA UN5112		9 9 9 9	C29 C30 C31 C33 C40		CE04RW1A101M CK73FB1H103K CE04KW1H330M CK73EB1H104K CK45FB1H102K	9 9	
D6,7 D8,9 D11 D12 D13		MA111 MA111 DAN202U DAP202U MA111		9	Q20,21 Q20,21 Q22 Q22 Q23,24		DTC124EUA UN5212 2SC4081(R,S) 2SC4116(Y,GR) 2SC4213(B)		9 9 9 9 9	C41 -43 C44,45 C51,52 C53,54 C55		CK45FF1H472Z CK73FB1H221K CC73FCH1H390J CE04KW1H100M CK73FB1H103K		
D14 D19,20 D21 D22 D23		DA204U MA111 DAN202U DAP202U DAN202U		9	Q25 Q25 Q26 Q26 Q51		DTC124EUA UN5212 DTA143TUA UN5116 2SC4081(R,S)		9 9 9 9 9	C56 C57,58 C59,60 C61,62 C63,64		CC73FCH1H101J CE04KW1A101M CK73FB1H221K CQ93FMG1H123J CQ93FMG1H332J		
D24 D25 D25 D26 -29 D32 -35 D36		DAP202U DA204U DA204U MA111 MA111 UDZ5.1B	TE Y	9 7	Q51 Q51 Q51 Q52 Q52		2SC4081(R,S) 2SC4116(Y,GR) 2SC4116(Y,GR) DTC124EUA DTC124EUA	Y TE Y TE Y	7 9 7 9 7	C65,66 C67,68 C69 C70 C71 -76		CE04KW1H4R7M CC73FCH1H101J CK73FB1H103K CC73FCH1H101J CK73FB1H221K		
D37 -42 D43 D45 -47 D48 D49		U1BC44 DAP202U MA111 MA111 MA111		7 9	Q52 Q52 Q53 Q53 Q53		UN5212 UN5212 2SC4081(R,S) 2SC4116(Y,GR) 2SB1370	TE Y	9 7	C77 C78 -80 C81 -85 C86 C88		CK73FB1H331K CE04KW1A470M CE04KW1A470M CK73FB1E104K CC73FCH1H270J	9	
D401,402 D451 D461 D471 D491		UDZ8.2B D4SBL20UF03 UDZ5.6B S1ZB20(4072) KBP02ML-6127			Q401,402 Q401,402 Q403,404 Q405 Q405 Q406		2SB1375 2SK246(Y,GR) 2SC4081(R,S) 2SC4116(Y,GR) 2SA1576A(R,S)			C89 C90 -93 C94 C95 -97 C99,100		CK73FB1H103K CC73FCH1H101J CK73FB1E104K CC73FCH1H101J CE04KW1H101M		
D492 D901		UDZ16B DA204U			Q406		2SA1586(Y,GR)			C101,102 C103,104 C105		CC73FCH1H101J CE04KW1H4R7M CC73FCH1H101J		
IC1	*	BA7649AF												

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C107-114		CK73FB1H221K			R135,136		RK73FB2A303J			△ Q1 -3		2SC3940A(R,S)		
C115-122		CC73FCH1H101J			R139,140		RK73FB2A361J			Q4		DTC124EUA		
C135,136		CC73FCH1H101J			R141,142		RK73FB2A274J			Q5 ,6		UN5212		
C137,138		CE04KW1H4R7M			R143,144		RK73FB2A223J			Q5 ,6		DTA124EUA		
C139,140		CC73FCH1H101J			R145,146		RK73FB2A473J			Q7 -16		UN5112		
C141,142		CE04KW1H4R7M			R147,148		RK73FB2A102J			Q7 -16		DTC124EUA		
C143		CK73FB1H103K			R149,150		RK73FB2A104J			A1	*	W02-2737-05		
C144		CC73FCH1H101J			R151,152		RK73FB2A221J			A2		W02-2717-05		
C145,146		CE04KW1H4R7M			R153,154		RK73FB2A474J			A3 ,4		W02-2716-05		
C157,158		CE04KW1H4R7M			R155,156		RK73FB2A102J			A5 -9		W02-2716-05		9
C159,160		CC73FCH1H181J			R157,158		RK73FB2A104J			<b>VIDEO (X35-2232-71) KRF-V9993D only</b>				
C161		CK73FB1H103K			R159,160		RK73FB2A221J			C1 -9		CC73FSL1H101J		
C162		CC73FCH1H101J			R161,162		RK73FB2A474J			C10 -15		CE04KW1H010M		
C163,164		CK73FB1H103K			R163,164		RK73FB2A102J			C16 -18		CE04KW1A471M		
C165,166		CK73FF1C105Z			R165,166		RK73FB2A104J			C19 -21		CK73FB1H102K		
C167,168		CC73FSL1H560J			R167,168		RK73FB2A221J			C22 -24		CE04KW1H010M		
C169		CE04KW1E221M			R169,170		RK73FB2A474J			C25 ,26		CC73FSL1H180J		
C170		CK73FB1H103K			R171,172		RK73FB2A102J			C27		CE04KW1E470M		
CN1		E40-3264-05	9		R173,174		RK73FB2A104J			C31		CC73FCH1H271J		
CN2		E40-4101-05			R175		RK73FB2A103J			C32		CC73FCH1H391J		
CN3		E40-8405-05			R176,177		RK73FB2A474J			C33		CK73FB1H472K		
CN4		E40-9823-05			R183,184		RK73FB2A224J			C34		CE04KW1H2R2M		
CN5	*	E40-8622-05			R185,186		RK73FB2A101J			C35		CE04KW1E470M		
CN6 ,7		E40-9820-05			R187		RK73FB2A470J			C36		CK73FB1H103K		
J1	*	E63-1108-05	7		R189,190		RK73FB2A102J			C42		CK73FF1C224Z		
J1	*	E63-1109-05	9		R191-193		RD14NB2E100J		9	C43 ,44		CC73FCH1H220J		
J2	*	E63-1112-05	7		R194-198		RD14NB2E100J			C45		CE04KW1H0R1M		
J2	*	E63-1113-05	9		R199		RK73FB2A100J			C46		CK73FB1H103K		
J3	*	E63-1111-05	9		R200		RK73FB2A101J			C47		CE04KW1H4R7M		
J3	*	E63-1164-05	7		R201		RK73FB2A102J			C48		CK73FF1C105Z		
J5	*	E63-1121-05			R202-204		RK73FB2A101J			C49		CK73FB1H102K		
J6	*	E56-0026-05			R205		RK73FB2A681J			C51 ,52		CK73FF1E104Z		
J7	*	E11-0190-05			R211,212		RK73FB2A223J			C53		CE04KW1H010M		
J8	*	E70-0121-05			R213,214		RK73FB2A101J			C54		CK73FB1H103K		
J8		E70-0121-05			R215,216		RK73FB2A750J			C55		CE04KW1A101M		
E3 ,4		J11-0809-05			R217		RK73FB2A474J			C56		CK73FF1C224Z		
X1		L78-0284-05			R218		RK73FB2A750J			C57		CC73FSL1H221J		
△ R1		RD14NB2E4R7J			R219-225		RK73FB2A513J		7	C58		CE04KW1H2R2M		
R4 ,5		R92-2062-05			R241-245		RK73FB2A103J			C59		CK73FB1H103K		
R6		RK73FB2A151J	7		R249		RK73FB2A103J			C60		CC73FSL1H102J		
R6		RK73FB2A221J	9		R251,252		RK73FB2A471J			C61		CK73FF1E104Z		
R7		RK73FB2A301J			R253,254		RK73FB2A474J			C65		CK73FB1H103K		
△ R9		RD14NB2E100J			R255,256		RK73FB2A101J			C71 ,72		CE04KW1H010M		
R10 -16		RK73FB2A473J			R257,258		RK73FB2A470J			C73		CK73FB1H222K		
R17 -67		RK73FB2A474J			R259		RD14NB2E681J			C74		CK73FB1H223K		
R68		RK73FB2A332J			W201-203		R92-0670-05			C75		CK73FB1H103K		
R69 ,70		RK73FB2A473J			W204		R92-0679-05			C77		CE04KW1H100M		
R71		RK73FB2A105J			W206		R92-0670-05			C78		CE04KW1H3R3M		
R72 -74		RK73FB2A473J			W207		R92-0679-05			C101,102		CE04KW1C470M		
R75		RK73FB2A333J			W208		R92-0670-05			C104		CC73FSL1H182J		
△ R78		RK73FB2A100J			W209		R92-0679-05		9	C105		CC73FSL1H102J		
△ R79		RS14KB3A390J			W210-214		R92-0670-05			C106		CE04KW1H220M		
R81		RK73FB2A100J			W215		R92-0670-05			C107		CK73FF1C105Z		
R82 -85		RK73FB2A221J	9		W216,217		R92-0670-05			C108,109		CK73FB1H103K		
R82 -85		RK73FB2A271J	7		S1 -17		S70-0031-05		9	C110		CC73FSL1H101J		
R86 -90		RK73FB2A301J			S18		S70-0031-05			C151		CE04KW1E470M		
R91 ,92		RK73FB2A221J	9		S20		S68-0088-05			C152,153		CK73FF1E104Z		
R91 ,92		RK73FB2A271J			S19		T99-0602-05			CN1	*	E40-8530-05		
R93 -106		RK73FB2A103J			D1 ,2		MTZJ3.3(B)			CN2	*	E40-9822-05		
R107		RD14NB2E100J	9		D1 ,2		RD3.3ES(B2)			J1 -3	*	E63-1126-05		
R109		RK73FB2A101J	9		D13		MTZJ5.1(B)			X1	*	L77-2281-05		
R112-114		RK73FB2A101J			D14		RD5.1ES(B2)			X2	*	L77-2282-05		
R115		RK73FB2A473J			D14		MTZJ5.6(B)			X3	*	L78-0711-05		
R116 ,117		RK73FB2A101J			D27 ,28		DA204U			R1 -6		RK73FB2A750J		
R118		RD14NB2E101J			D29		MTZJ3.3(B)		9	R7 -9		RK73FB2A104J		
△ R120		RD14NB2E330J			D29		RD3.3ES(B2)		9	R10 -12		RK73FB2A430J		
R121		RK73FB2A221J			ED1		16-MT-62GK			R13 -15		RK73FB2A1R0J		
R122		RK73FB2A101J			IC1		UPD780204-038		9	R21		RK73FB2A561J		
R123		RK73FB2A103J			IC2		TA8409S			R22 ,23		RK73FB2A102J		
R124		RK73FB2A101J			IC3		NJU7313AM			R24		RK73FB2A272J		
R125		RK73FB2A513J	9		IC4		NJU7312AM			R25 ,26		RK73FB2A103J		
R126,127		RK73FB2A2R2J			IC6		NJM4580ED			R28		RK73FB2A1R0J		
R128		RD14NB2E2R7J	9		IC7 ,8		NJM4565MD			R29		RK73FB2A100J		
R131,132		RK73FB2A224J			IC11	*	TC74HC151AF							
R133,134		RK73FB2A222J												

L : Scandinavia  
Y : PX(Far East,Hawaii)  
Y : AAFES(Europe)K : USA  
T : England  
X : AustraliaP : Canada  
E : Europe  
Q : RussiaR : Mexico  
G : Germany  
H : KoreaC : China  
V : China(Shanghai)  
M : Other Areas

I : Malaysia

△ indicates safety critical components .

# KRF-V7773D/V7773D-B/V9993D

## PARTS LIST

\* New Parts  
Parts without **Parts No.** are not supplied.  
Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.  
Teile ohne **Parts No.** werden nicht geliefert.

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Ref. No	New Parts	Parts No.	Desti-nation	Re-marks	Ref. No	New Parts	Parts No.	Desti-nation	Re-marks	Ref. No	New Parts	Parts No.	Desti-nation	Re-marks
R30		RK73FB2A1R0J			R93		RK73FB2A103J			Q6		DTC143TUA		
R31		RK73FB2A222J			R101		RK73FB2A103J			Q6		UN5216		
R32		RK73FB2A331J			R102		RK73FB2A273J			Q7 ,8		DTA124EUA		
R33		RK73FB2A272J			R103		RK73FB2A103J			Q7 ,8		UN5112		
R34		RK73FB2A432J			R104		RK73FB2A273J			Q9 ,10		DTC124EUA		
R35		RK73FB2A914J			R105,106		RK73FB2A332J			Q9 ,10		UN5212		
R36		RK73FB2A242J			R107		RK73FB2A182J			Q11		2SC4116(Y,GR)		
R37		RK73FB2A471J			R108		RK73FB2A103J			Q11		2SC4177(L5,L6)		
R38		RK73FB2A821J			R109		RK73FB2A223J			Q12 ,13		DTC124EUA		
R39		RK73FB2A153J			R110		RK73FB2A103J			Q12 ,13		UN5212		
R40		RK73FB2A684J			R111		RK73FB2A104J			Q14		2SC4116(Y,GR)		
R41		RK73FB2A184J			R112		RK73FB2A101J			Q14		2SC4177(L5,L6)		
R42		RK73FB2A433J			R113		RK73FB2A474J							
R43		RK73FB2A103J			R114		RK73FB2A183J							
R44		RK73FB2A273J			R115,116		RK73FB2A103J							
R45 ,46		RK73FB2A102J			R117		RK73FB2A222J							
R47		RK73FB2A182J			R118		RK73FB2A103J							
R48		RK73FB2A221J			R119		RK73FB2A1R0J							
R49		RK73FB2A151J			R151		RD14NB2E1R0J							
R50		RK73FB2A750J			VR1 ,2		R12-3101-05							
R51		RK73FB2A183J			D1		DAN202U							
R52		RK73FB2A223J			D1		1SS301							
R53		RK73FB2A102J			D2		UDZ11B							
R54		RK73FB2A103J			D4		DA204U							
R55		RK73FB2A392J			D4		1SS302							
R56		RK73FB2A183J			IC1	*	BA7613F							
R57		RK73FB2A223J			IC2 ,3	*	BA7612F							
R58 ,59		RK73FB2A103J			IC5	*	UPC1830GT							
R61		RK73FB2A103J			IC6	*	AN5560							
R62		RK73FB2A222J			IC7	*	BA7071F							
R71		RK73FB2A183J			IC8	*	UPC29M05HB							
R72		RK73FB2A224J			IC10		NJM4565M							
R73		RK73FB2A104J			Q1		2SC4116(Y,GR)							
R74		RK73FB2A334J			Q1		2SC4177(L5,L6)							
R75		RK73FB2A223J			Q2		2SA1586(Y,GR)							
R76		RS14KB3A181J			Q2		2SA1611(M5,M6)							
R77		RK73FB2A103J			Q3 ,4		2SC4116(Y,GR)							
R78		RK73FB2A101J			Q3 ,4		2SC4177(L5,L6)							
R79		RK73FB2A102J			Q5		DTC124EUA							
R81		RK73FB2A1R0J			Q5		UN5212							

L : Scandinavia      K : USA      P : Canada      R : Mexico      C : China      I : Malaysia  
Y : PX(Far East,Hawaii)      T : England      E : Europe      G : Germany      V : China(Shanghai)  
Y : AAFES(Europe)      X : Australia      Q : Russia      H : Korea      M : Other Areas

⚠ indicates safety critical components .

**HOW TO READ THE PARTS LIST**  
**Destination column has the abbreviation for sale country and model.**  
**ABBREVIATION OF MODEL AND MASS PRODUCTION'S DESTINATIONS**

MODEL	CNT ABB.	Australia	Canada	China	England	Europe	Germany	Korea	Malaysia
		X	P	C	T	E	G	H	I
KRF-V7773D	7	X	-	-	-	E1	-	-	-
KRF-V7773D-B	7	-	-	-	T	E2	-	-	-
KRF-V9993D	9	X	-	-	T	E	-	-	-
MODEL	CNT ABB.	Mexico	PX/AAFES	Russia	Scandinavia	Shanghai	USA	Other area	
		R	Y	Q	L	V	K	M	
KRF-V7773D	7	-	Y	-	-	V	-	M	
KRF-V7773D-B	7	-	-	-	-	-	-	-	
KRF-V9993D	9	-	-	-	-	-	-	M	

# KRF-V7773D/N7773D-B/V9993D

## SPECIFICATIONS

### KRF-V7773D(for U.S. military)

#### Audio Section

Rated Output Power during stereo operation  
120 watts per channel minimum RMS, both channels driven, at 6  $\Omega$  from 20Hz to 20kHz with no more than 0.05% total harmonic distortion (FTC).

Effective Output Power during stereo operation  
1kHz, 10% T.H.D. at 6  $\Omega$  ..... 140 W +140 W

Effective Output Power during surround operation  
Front  
1kHz, 10% T.H.D. at 6  $\Omega$ , one channel driven ..... 160 W +160 W  
20Hz ~ 20kHz, 0.06% T.H.D., 6  $\Omega$ , one channel driven ..... 120 W +120 W  
Center  
1kHz, 10% T.H.D. at 6  $\Omega$ , one channel driven ..... 160 W  
20Hz ~ 20kHz, 0.06% T.H.D., 6  $\Omega$ , one channel driven ..... 120 W  
Surround  
1kHz, 10% T.H.D. at 6  $\Omega$ , one channel driven ..... 160 W +160 W  
20Hz ~ 20kHz, 0.06% T.H.D., 6  $\Omega$ , one channel driven ..... 120 W +120 W

Total Harmonic Distortion ..... 0.005% (1kHz, 10 W, 6  $\Omega$ )

Frequency Response (IHF '66)  
CD ..... 7 Hz~90 kHz, 0 dB, -3 dB  
6ch Input ..... 7 Hz~100 kHz, 0 dB, -3 dB

Signal to Noise Ratio (IHF '66)  
Phono (MM) ..... 74 dB  
CD ..... 97 dB

Input Sensitivity / Impedance  
Phono (MM) ..... 2.5 mV /47 k $\Omega$   
CD ..... 200 mV /47 k $\Omega$   
6ch Input ..... 200 mV /47 k $\Omega$

Output Level / Impedance  
Tape Rec ..... 200 mV /2.2 k $\Omega$   
Pre Out (Front, Center, Surround, Subwoofer) ..... 1 V /1 k $\Omega$

Tone Control  
Bass .....  $\pm$ 7dB (at 100 Hz)  
Treble .....  $\pm$ 7dB (at 10 kHz)

Loudness Control  
Volume at -30dB level ..... +6dB (100Hz), +3dB (10 kHz)

#### Digital Audio Section

Sampling Frequency ..... 32 kHz, 44.1 kHz, 48 kHz, 96 kHz

Input Level / Impedance / Wavelength  
Optical ..... -15 dBm~-21 dBm, 660 nm +30 nm  
Coaxial ..... 0.5 Vp-p /75  $\Omega$

Output Level / Impedance / Wavelength  
Optical ..... -15 dBm~-21 dBm, 660 nm +30 nm

#### Video Section

Video Inputs / Outputs  
Video (composite) ..... 1 Vp-p /75  $\Omega$   
S Video (luminance signal) ..... 1 Vp-p /75  $\Omega$   
(chrominance signal) ..... 0.286 Vp-p /75  $\Omega$

#### FM Tuner Section

Tuning Frequency Range ..... 87.5 MHz~108 MHz  
Usable Sensitivity (Mono) ..... 1.6  $\mu$ V (75  $\Omega$ )/15.2 dBf (75 kHz dev., sinad 30 dB)  
50 dB Quieting Sensitivity ..... 31.6  $\mu$ V (75  $\Omega$ )/41.2 dBf

Total Harmonic Distortion (1 kHz)  
Mono ..... 0.3% (65 dBf input)  
Stereo ..... 0.7% (65 dBf input)

Signal to Noise Ratio (1 kHz, 75 kHz DEV.)  
Mono ..... 75 dB (65 dBf input)  
Stereo ..... 68 dB (65 dBf input)

Stereo Separation (1 kHz) ..... 38 dB  
Selectivity ( $\pm$ 400 kHz) ..... 70 dB  
Frequency Response ..... 30 Hz~15 kHz, +0.5 dB, -3.0 dB

#### AM Tuner Section

Tuning Frequency Range  
10 kHz step ..... 530 kHz~1,700 kHz  
Usable Sensitivity (30% mod., S/N 20 dB) ..... 16  $\mu$ V / (600  $\mu$ V/m)  
Signal to Noise Ratio (30% mod. 1 mV input) ..... 50 dB

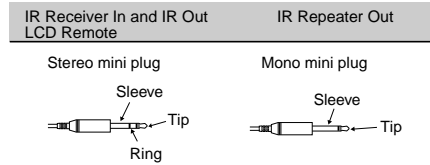
#### IR In/Out Section

IR Receiver In Terminal  
Maximum Output Current ..... 20 mA  
Operating Voltage ..... 12 V  
Output Impedance ..... 470  $\Omega$

IR Out LCD Remote Terminal  
Maximum Output Current ..... 20 mA  
Operating Voltage ..... 5 V  
Output Impedance ..... 470  $\Omega$

IR Repeater Out Terminal  
Maximum Output Current ..... 20 mA  
Operating Voltage ..... 12 V  
Output Impedance ..... 470  $\Omega$

SHAPE OF PLUG TO BE CONNECTED:



IR IN/OUT SPECIFICATION:

Terminal	IR Receiver In	IR OUT LCD REMOTE
To Tip	Signal	Signal
To Ground	Ground	
To Sleeve	+12V	Ground

#### General

Power consumption ..... 350 W  
AC outlet Switched ..... 2 (total 90 W, 0.75 A max.)  
Dimensions ..... W : 440 mm (17-5/16")  
H : 191 mm (7-1/2")  
D : 416 mm (16-3/8")  
Weight (Net) ..... 14.3 kg (31.5lb)

### KRF-V7773D(for U.K.)

#### Audio Section

Rated Output Power during stereo operation  
1kHz, 0.05% T.H.D. at 4  $\Omega$  (DIN/IEC) ..... 130 W +130 W  
20Hz ~ 20kHz, 0.05% T.H.D., 4  $\Omega$  (IEC) ..... 120 W +120 W

Effective Output Power during surround operation  
Front  
20 Hz ~ 20 kHz, 0.06% T.H.D., 4  $\Omega$ , one channel driven ..... 120 W +120 W  
Center  
20Hz ~ 20kHz, 0.06% T.H.D., 4  $\Omega$ , one channel driven ..... 120 W  
Surround  
20 Hz ~ 20 kHz, 0.06% T.H.D., 4  $\Omega$ , one channel driven ..... 120 W +120 W

Total Harmonic Distortion ..... 0.005% (1 kHz, 10 W, 6  $\Omega$ )

Frequency Response (IHF '66)  
CD ..... 7 Hz~90 kHz, 0 dB, -3 dB  
6ch Input ..... 7 Hz~100 kHz, 0 dB, -3 dB

Signal to Noise Ratio (IHF '66)  
Phono (MM) ..... 74 dB  
CD ..... 97 dB

Input Sensitivity / Impedance  
Phono (MM) ..... 2.5 mV /47 k $\Omega$   
CD ..... 200 mV /47 k $\Omega$   
6ch Input ..... 200 mV /47 k $\Omega$

Output Level / Impedance  
Tape Rec ..... 200 mV /2.2 k $\Omega$   
Pre Out (Front, Center, Surround, Subwoofer) ..... 1 V /1 k $\Omega$

Loudness Control  
Volume at -30 dB level ..... +6 dB (100 Hz), +3 dB (10 kHz)

#### Digital Audio Section

Sampling Frequency ..... 32 kHz, 44.1 kHz, 48 kHz, 96 kHz

Input Level / Impedance / Wavelength  
Optical ..... -15 dBm~-21 dBm, 660 nm +30 nm  
Coaxial ..... 0.5 Vp-p /75  $\Omega$

Output Level / Impedance / Wavelength  
Optical ..... -15 dBm~-21 dBm, 660 nm +30 nm

#### Video Section

Video Inputs / Outputs  
Video (composite) ..... 1 Vp-p /75  $\Omega$   
S Video (luminance signal) ..... 1 Vp-p /75  $\Omega$   
(chrominance signal) ..... 0.286 Vp-p /75  $\Omega$

#### FM Tuner Section

Tuning Frequency Range ..... 87.5 MHz~108 MHz  
Usable Sensitivity (Mono) ..... 1.2  $\mu$ V (DIN at 75 $\Omega$ )/13.2 dBf (40kHz dev., S/N 26dB)  
Usable Sensitivity (STEREO) ..... 45  $\mu$ V (DIN at 75 $\Omega$ )/44.2 dBf (46kHz dev., S/N 46dB)

Total Harmonic Distortion (DIN at 1 kHz)  
Mono ..... 0.2% (65.2 dBf input)  
Stereo ..... 0.8% (65.2 dBf input)

Signal to Noise Ratio (DIN/1 kHz, 40 kHz Dev.)  
Mono ..... 65dB (65.2 dBf input)  
Stereo ..... 60dB (65.2 dBf input)

Stereo Separation (DIN at 1 kHz) ..... 36 dB  
Selectivity (DIN,  $\pm$ 300kHz) ..... 64 dB  
Frequency Response ..... 30Hz~15 kHz, +0.5 dB, -3.0 dB

#### AM Tuner Section

Tuning Frequency Range ..... 531 kHz~1,602 kHz  
Usable Sensitivity (30% mod., S/N 20 dB) ..... 16  $\mu$ V / (600  $\mu$ V/m)  
Signal to Noise Ratio (30% mod. 1 mV input) ..... 50 dB

#### General

Power consumption ..... 480 W  
AC outlet Switched ..... 2 (total 90W max.)  
Dimensions ..... W : 440 mm  
H : 191 mm  
D : 416 mm  
Weight (Net) ..... 18 kg (39.7lb)

### KRF-V7773D(for other countries.)

#### Audio Section

Rated Output Power during stereo operation  
20 Hz ~ 20 kHz, 0.7% T.H.D., 6  $\Omega$  (IEC) ..... 130 W +130 W

Effective Output Power during stereo operation  
1kHz, 10% T.H.D., at 6  $\Omega$  ..... 140 W +140 W

Effective Output Power during surround operation  
Front  
1kHz, 10% T.H.D. at 6  $\Omega$ , one channel driven ..... 160 W +160 W  
20 Hz ~ 20 kHz, 0.06% T.H.D., 6  $\Omega$ , one channel driven ..... 120 W +120 W  
Center  
1kHz, 10% T.H.D. at 6  $\Omega$ , one channel driven ..... 160 W  
20Hz ~ 20kHz, 0.06% T.H.D., 6  $\Omega$ , one channel driven ..... 120 W  
Surround  
1 kHz, 10% T.H.D. at 6  $\Omega$ , one channel driven ..... 160 W +160 W  
20 Hz ~ 20 kHz, 0.06% T.H.D., 6  $\Omega$ , one channel driven ..... 120 W +120 W

Total Harmonic Distortion ..... 0.005% (1 kHz, 10 W, 6  $\Omega$ )

Frequency Response (IHF '66)  
CD ..... 7Hz~90 kHz, 0 dB, -3 dB  
6ch Input ..... 7Hz~100 kHz, 0 dB, -3 dB

Signal to Noise Ratio (IHF '66)  
Phono (MM) ..... 74 dB  
CD ..... 97 dB

Input Sensitivity / Impedance  
Phono (MM) ..... 2.5 mV /47 k $\Omega$   
CD ..... 200 mV /47 k $\Omega$   
6ch Input ..... 200 mV /47 k $\Omega$

Output Level / Impedance  
Tape Rec ..... 200 mV /2.2 k $\Omega$   
Pre Out (Front, Center, Surround, Subwoofer) ..... 1 V /1 k $\Omega$

Loudness Control  
Volume at -30dB level ..... +6 dB (100 Hz), +3 dB (10 kHz)

#### Digital Audio Section

Sampling Frequency ..... 32 kHz, 44.1 kHz, 48 kHz, 96 kHz

Input Level / Impedance / Wavelength  
Optical ..... -15 dBm~-21 dBm, 660 nm +30 nm  
Coaxial ..... 0.5 Vp-p /75  $\Omega$

Output Level / Impedance / Wavelength  
Optical ..... -15 dBm~-21 dBm, 660 nm +30 nm

#### Video Section

Video Inputs / Outputs  
Video (composite) ..... 1 Vp-p /75  $\Omega$   
S Video (luminance signal) ..... 1 Vp-p /75  $\Omega$   
(chrominance signal) ..... 0.286 Vp-p /75  $\Omega$

#### FM Tuner Section

Tuning Frequency Range ..... 87.5 MHz~108 MHz  
Usable Sensitivity (Mono) ..... 1.6  $\mu$ V (75  $\Omega$ )/15.2 dBf (75 kHz dev., SINAD 30 dB)  
50dB Quieting Sensitivity ..... 31.6  $\mu$ V/41.2 dBf (75  $\Omega$ )

STEREO ..... 0.6% (65 dBf input)  
Stereo ..... 0.7% (65 dBf input)

Signal to Noise Ratio (1 kHz, 75 kHz Dev.)  
Mono ..... 75 dB (65 dBf input)  
Stereo ..... 68 dB (65 dBf input)

Stereo Separation (1 kHz) ..... 38 dB  
Selectivity ( $\pm$ 400 kHz) ..... 50 dB  
Frequency Response ..... 30 Hz~15 kHz, +0.5 dB, -3.0 dB

#### AM Tuner Section

Tuning Frequency Range  
9kHz step ..... 531 kHz~1,602 kHz  
10kHz step ..... 530 kHz~1,610 kHz  
Usable Sensitivity (30% mod., S/N 20 dB) ..... 16  $\mu$ V / (600  $\mu$ V/m)  
Signal to Noise Ratio (30% mod. 1 mV input) ..... 50 dB

#### General

Power consumption ..... 480 W  
AC outlet Switched ..... 2 (total 90W max.)  
Dimensions ..... W : 440 mm  
H : 191 mm  
D : 416 mm  
Weight (Net) ..... 18 kg (39.7lb)

# KRF-V7773D/V7773D-B/V9993D

## SPECIFICATIONS

### KRF-V9993D (for U.K.)

#### Audio Section

Rated Output Power during stereo operation  
20 Hz ~ 20 kHz, 0.05% T.H.D. , 4 $\Omega$  (IEC)  
..... 130 W + 130 W  
1 kHz, 0.05% T.H.D. , 4 $\Omega$  (DIN/IEC) ..... 130 W + 130 W

Effective Output Power during surround operation  
(Simultaneous power)

Front  
20 Hz ~ 20 kHz, 0.06 % T.H.D. at 4  $\Omega$  ..... 130 W + 130 W

Center  
20 Hz ~ 20 kHz, 0.06 % T.H.D. at 4  $\Omega$  ..... 130 W

Surround  
20 Hz ~ 20 kHz, 0.06 % T.H.D. at 4  $\Omega$  ..... 130 W + 130 W

Total Harmonic Distortion ..... 0.005 % (1 kHz, 10 W, 4  $\Omega$ )

Frequency Response (IHF'66)  
CD1 ..... 7 Hz ~ 90 kHz, 0 dB, -3 dB  
DVD 6CH ..... 7 Hz ~ 100 kHz, 0 dB, -3 dB

Signal to Noise Ratio (IHF'66)  
PHONO (MM) ..... 74 dB  
CD1 ..... 97 dB

Input Sensitivity / Impedance  
PHONO (MM) ..... 2.5 mV / 47 k $\Omega$   
CD1 ..... 200 mV / 47 k $\Omega$   
DVD 6CH ..... 200 mV / 47 k $\Omega$

Output Level / Impedance  
TAPE REC ..... 200 mV / 2.2 k $\Omega$   
PRE OUT(Front, Center, Surround, Subwoofer) 1 V / 1 k $\Omega$

Tone Control  
Bass .....  $\pm 7$  dB (at 100 Hz)  
Treble .....  $\pm 7$  dB (at 10 kHz)

Loudness Control Volume at -40 dB level  
..... +6 dB (100 Hz), +3 dB (10 kHz)

#### Digital Audio Section

Sampling Frequency ..... 32 kHz, 44.1 kHz, 48 kHz, 96 kHz

Input Level / Impedance / Wavelength  
Optical ..... -15 dBm ~ -21 dBm, 660 nm  $\pm 30$  nm  
Coaxial ..... 0.5 Vp-p / 75  $\Omega$

Output Level / Impedance / Wavelength  
Optical ..... -15 dBm ~ -21 dBm, 660 nm  $\pm 30$  nm  
Coaxial ..... 0.5 Vp-p / 75  $\Omega$

### KRF-V9993D (for Other Countries)

#### Audio Section

Rated Output Power during stereo operation  
20 Hz ~ 20 kHz, 0.7% T.H.D. , 6 $\Omega$  (IEC)  
..... 145 W + 145 W  
130 watts per channel minimum RMS, both channels  
driven, at 6  $\Omega$  from 20Hz to 20kHz with no more than  
0.05% total harmonic distortion (FTC).

Effective Output Power during stereo operation  
1 kHz, 10 % T.H.D. at 6  $\Omega$  ..... 165 W + 165 W

Effective Output Power during surround operation

Front  
1 kHz, 10 % T.H.D. at 6  $\Omega$ , one channel driven ..... 185 W + 185 W

Center  
1kHz, 10% T.H.D. at 6  $\Omega$ , one channel driven ..... 185 W

Surround  
1kHz, 10% T.H.D. at 6  $\Omega$ , one channel driven ..... 185 W + 185 W

Total Harmonic Distortion ..... 0.005 % (1 kHz, 10 W, 6  $\Omega$ )

Frequency Response (IHF'66)  
CD1 ..... 7 Hz ~ 90 kHz, 0 dB, -3 dB  
DVD 6CH ..... 7 Hz ~ 100 kHz, 0 dB, -3 dB

Signal to Noise Ratio (IHF'66)  
PHONO (MM) ..... 74 dB  
CD1 ..... 97 dB

Input Sensitivity / Impedance  
PHONO (MM) ..... 2.5 mV / 47 k $\Omega$   
CD1 ..... 200 mV / 47 k $\Omega$   
DVD 6CH ..... 200 mV / 47 k $\Omega$

#### Video Section

Video Inputs / Outputs  
Video (composite) ..... 1 Vp-p / 75  $\Omega$   
S Video ( luminance signal) ..... 1 Vp-p / 75  $\Omega$   
(chrominance signal) ..... 0.286 Vp-p / 75  $\Omega$   
Component (luminance signal) ..... 1 Vp-p / 75  $\Omega$   
(Cb/Cr-signal) .....  $\pm 0.350$  Vp-p / 75  $\Omega$

#### FM Tuner Section

Tuning Frequency Range ..... 87.5 MHz ~ 108 MHz

Usable Sensitivity (DIN at 75  $\Omega$ )  
Mono ..... 1.2  $\mu$ V/ 13.2 dBf (40 kHz dev., S/N 26 dB)  
Stereo ..... 45  $\mu$ V/ 44.2 dBf (46 kHz dev., S/N 46 dB)

Total Harmonic Distortion (1 kHz)  
Mono ..... 0.2 % (65.2 dBf input)  
Stereo ..... 0.8 % (65.2 dBf input)

Signal to Noise Ratio (DIN. at 1 kHz, 40 kHz dev.)  
Mono ..... 65 dB (65.2 dBf input)  
Stereo ..... 60 dB (65.2 dBf input)

Stereo Separation (1 kHz) ..... 36 dB

Selectivity (DIN +300 kHz) ..... 64 dB

Frequency Response ..... 30 Hz ~ 15 kHz, +0.5 dB, -3.0 dB

#### AM Tuner Section

Tuning Frequency Range ..... 531 kHz ~ 1,602 kHz

Usable Sensitivity (30 % mod., S/N 20 dB)  
..... 16  $\mu$ V / (600  $\mu$ V/m)

Signal to Noise Ratio (30 % mod., 1 mV input) ..... 50 dB

#### IR In/Out Section

IR Receiver In Terminal  
Maximum Output Current ..... 20 mA  
Operating Voltage ..... 12 V  
Output Impedance ..... 470  $\Omega$

IR Out LCD Remote Terminal  
Maximum Output Current ..... 20 mA  
Operating Voltage ..... 5 V  
Output Impedance ..... 470  $\Omega$

Output Level / Impedance  
TAPE REC ..... 200 mV / 2.2 k $\Omega$   
PRE OUT (Front, Center, Surround, Subwoofer) .. 1 V / 1 k $\Omega$

Tone Control  
Bass .....  $\pm 7$  dB (at 100 Hz)  
Treble .....  $\pm 7$  dB (at 10 kHz)

Loudness Control  
Volume at -30 dB level ..... +6 dB (100 Hz), +3 dB (10 kHz)

#### Digital Audio Section

Sampling Frequency ..... 32 kHz, 44.1 kHz, 48 kHz, 96 kHz

Input Level / Impedance / Wavelength  
Optical ..... -15 dBm ~ -21 dBm, 660 nm  $\pm 30$  nm  
Coaxial ..... 0.5 Vp-p / 75  $\Omega$

Output Level / Impedance / Wavelength  
Optical ..... -15 dBm ~ -21 dBm, 660 nm  $\pm 30$  nm  
Coaxial ..... 0.5 Vp-p / 75  $\Omega$

#### Video Section

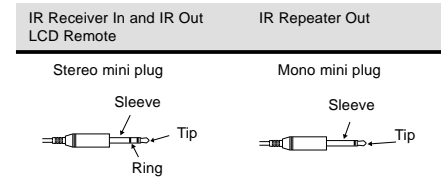
Video Inputs / Outputs  
Video (composite) ..... 1 Vp-p / 75  $\Omega$   
S Video ( luminance signal) ..... 1 Vp-p / 75  $\Omega$   
(chrominance signal) ..... 0.286 Vp-p / 75  $\Omega$   
Component (luminance signal) ..... 1 Vp-p / 75  $\Omega$   
(Cb/Cr-signal) .....  $\pm 0.350$  Vp-p / 75  $\Omega$

#### FM Tuner Section

Tuning Frequency Range ..... 87.5 MHz ~ 108 MHz

Usable Sensitivity (Mono)  
..... 1.6  $\mu$ V (75  $\Omega$ ) / 15.2 dBf (75 kHz dev., sinad 30 dB)

#### SHAPE OF PLUG TO BE CONNECTED:



#### IR IN/OUT SPECIFICATION:

		Terminal	
		IR Receiver In	IR OUT LCD REMOTE
To Tip	Signal	Signal	Signal
To Ring	Ground		
To Sleeve	+12V	Ground	Ground

#### RELAY CONTROL SPECIFICATION:

	status		
	Power Off	Power On	Power On and when switched to Video Input
To Tip	0V	0V	+12V
To Ring	0V	+12V	+12V
To Sleeve	Ground	Ground	Ground

#### General

Power consumption ..... 480 W

AC outlet  
Switched ..... 2 (total 90 W max.)

Dimensions ..... W : 480mm  
H : 191mm  
D : 416mm

Weight (Net) ..... 18 kg

50dB Quieting Sensitivity  
Stereo ..... 31.6  $\mu$ V (75  $\Omega$ ) / 41.2 dBf

Total Harmonic Distortion (1 kHz)  
Mono ..... 0.6 % (65 dBf input)  
Stereo ..... 0.7 % (65 dBf input)

Signal to Noise Ratio (1 kHz, 75 kHz DEV.)  
Mono ..... 75 dB (65 dBf input)  
Stereo ..... 68 dB (65 dBf input)

Stereo Separation (1 kHz) ..... 38 dB

Selectivity ( $\pm 400$  kHz) ..... 50 dB

Frequency Response ..... 30 Hz ~ 15 kHz, +0.5 dB, -3.0 dB

#### AM Tuner Section

Tuning Frequency Range  
9kHz step ..... 531 kHz ~ 1,602 kHz  
10kHz step ..... 530 kHz ~ 1,610 kHz

Usable Sensitivity (30 % mod., S/N 20 dB)  
..... 16  $\mu$ V / (600  $\mu$ V/m)

Signal to Noise Ratio (30 % mod. 1 mV input) ..... 50 dB

#### General

Power consumption ..... 430 W

AC outlet  
Switched(except for Australia) ..... 2 (total 70 W max.)  
Switched(for Australia) ..... 1 (total 70 W max.)

Dimensions ..... W : 480mm  
H : 191mm  
D : 416mm

Weight (Net) ..... 18.1 kg



1. Kenwood follows a policy of continuous advancements in development. For this reason, specifications may be changed without notice.
2. Full performance may not be exhibited in extremely cold locations (below 0 deg. C).

#### Note:

Component and circuit are subject to modification to insure best operation under differing local conditions. This manual is based on Europe (E) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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